

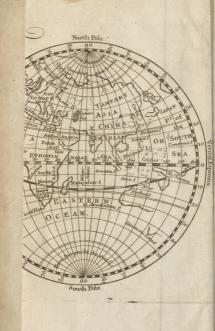
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The Newest

Young Man's Companion,

CONTAINING,

A Compendious English Grammar.

INSTRUCTIONS to write Variety of Hands, with Copies both in Profe and Verfe.

LETTERS on Compliment, Business, and several other Occasions.

FORMS of Indentures, Wills, Testaments, Letters of Attorney, Bills, Receipts, Releases, Acquittances, &c.

ARITHMETIC and BOOK-KEEPING, in an Easter Way than any yet published.

A Compendium of GEOGRAPHY,

Describing all the Empires, Kingdoms, and Dominions of the whole World. To which is added a Description of the several Counties of England and Scotland, their Produce, Market-towns and Market-days.

The MANAGEMENT of HORSES.
Being Directions for Travellers to prevent and cure most Diftempers which are incident to Horses,

The Art of PAINTING in Oil and Water Colours, With Directions for Colouring Maps and Gilding with Gold,

TABLES shewing Accounts ready cast up; The Value of foreign Gold; and the two great Roads from Edinburgh to London,

The EXPORTS and IMPORTS of Great Britain to and from foreign Nations. A Lift of English Manufactures, &c.

AND

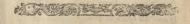
An English Spelling Dictionary.

The whole calculated to qualify Persons for Business without the Help of a Master, and illustrated with a Map of the World.

By THOMAS WISE, Accomptant.

The FIFTH EDITION, greatly enlarged and improved.

RERWICK, Printed and Sold by R. TAYLOR, and fold by all the Bookfellers in Great Britain and Ireland M DCC LXII,



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A COMPENDIOUS

ENGLISH GRAMMAR.

RAMMAR, in any language, is that art or science that teacheth the true and proper use of letters, fyllables, words and fentences. And tho' feveral rules and observations, applicable only to one particular speech or tongue, are different from those of another, yet such as concern the general relation, that things have to their modes, qualities, motions or paffions, are exactly the fame in all the languages in the world; for any name, quality, &c. in the English language is the same in any other, though expressed in a different term. From whence may be perceived, how far the generality of people are miltaken, in the notion they have, that it is absolutely necessary for all young persons to read the Latin, or Lilly's grammar, before they can attain to a right understanding of the English: for all the grammars of the Latin tongue are molily employed to teach the various terminations, &c. of the flections, modes, formations, and words of that language, a matter which no way concerns the English. But there are some few general rules in that and all other grammars that may be applied to the English, or any other language whatever.

I shall not here enter into a critical differtation upon each letter, nor divide them into vowels, confonants, mutes, liquids, &c. nor shall I divide the language into eight parts,

as is generally done, but into four, viz.

AFFIRMATIONS.

QUALITIES. | PARTICLES, or the manner of words.

Names express the things themselves, i. c. every thing that is the object of our feveral fenses, reflection, and understanding; which conveying some certain idea or image to the mind, want not the help of any other word to make them understood : as when we hear any one fay, a man, a borfe, virtue, vice, &c. we perfectly understand what he means.

Names express the things themselves, you cannot therefore put the word thing after them thus, man thing, virtue thing, &c. without making nonfense.

They admit of a or the before them, and an when

they begin with a vowel.

There are two fort of Names, Common Names are fuch as agree to, or express the whole species; as the name borfe fignifies my horfe, your horfe, and all the horfes that are

Proper Names diffinguish particulars of the species from each other, as Cafar, Pompey, Cato, distinguish those men from the rest of mankind. The same holds of the proper names of cities, towns, mountains, rivers, countries. &cc.

Qualities are the manners of Names, or things expreffed by them, as good, bad, round, fquare, &c. For example : the being of wax, is the fubstance of wax, or wax itself, without regard to any form or colour, and is what we call the name, the roundness squareness, &c. of the figure are the manners of the being; as to be ignorant or knowing, are the manners or qualities of our being: thus we fay a good, bad, black, white, &c. horfe; hor fe is the name, and good, bad, black, white, &c. are the qualities of that name.

The 3d general head is the Affirmation, under which term the exiltence, action, or pallion of the fubiect is affirmed, as the black horse runs, the common-sewer stinks, the young child cries. Here b'ack, common and young are qualities, as expressing some mode or quality of their subjects or names, borfe, fewer, and child; and the words runs, flinks, and cries denoting the feveral actions of their fubjects or names. It is usual to call these by three dif-

ferent appellations, viz. Substantive, active, and passive : those that are found to fignify the being or existence of any thing, as I am, &c. are termed substantives: those that fignify the afting or doing of any thing, as I fee, &c. are termed actives; where passion or the suffering of any thing is fignified, as I am forn, &c. they are passives.

The 21h class of words I call by the general name of Particles, which are occasionally made use of to make the fonfe of the speaker more full, clear, and intelligible, by expressing the manner, or other circumstances of the other words, either by connecting them together, or shewing the manners or qualities of them; viz. John and Mary firive earnefly; here, and earneftly are particles; and joining the two names John, Mary; earneflly thewing the mode of their ftriving.

A fubstantive has what is called two numbers, the one expressing only some one single thing of a fort or species, as a man, the other all above one, as men, viz. two, three, twenty, a thousand, &c. and this is called the plural number. The fingular number is commonly diffinguished by a. an, or one; as a borfe, a man, an image, an ideot, one child, one rulfe, &c. The plural number is generally known by the words terminating with an s, or es; but the fingular never, but in fuch as have a plural termination, tho' they have a fingular meanning; as, arm, arms: borje, borfes : king, kings : stone, stones, &c.

There are some exceptions to this general rule, but they are few in comparison to those that it comprehends : such as ox, oxen; man, men; brother, brethren; cow, cows, or kine : mouse, mice : foot, feet : tooth, teeth : penny, pence, &c. Singulars which end in for fe, have their plurals ending in ves; as wife, wives : felf, felves; knife, knives : avolf, wolves, &c. And the' most words, whose fingulars end in ff, follow the general rule aforegoing, as muff, muffs, &c. yet flaff makes flaves, according to the

latter rule.

Some terminate alike in both numbers, as one sheep,

ten (heep : one fwine, ten fwine, &c.

There are some words that admit of no singular number, fuch as ashes, bowels, cresses, &c. And on the contrary there are a great many that want the plural number; fuch as proper names of men, women, places, creatures and things; as also their virtues, vices, habits, and abstract qualities, the generality of grains, spices, herbs, drugs and liquids, as, wheat, rye, pepper, ginger, grass,

air, blood, milk, &c.

To the English language there belong three genders, which in conformity to the cultion ufed in the Greek and Latin tongues, may be called majauline, feminine and neuter, the majauline comprehending all males, feminine all femiles, and the neuter all things without like; and these are thus distinguished by these terms, he, his or him, for the mujauline; j, he, ber, her, s. C. for the feminine; and it for the neuter, but the quality remains the same, and is as applicable to males as femiles, or things without life called neuters, as a good boy, a good girl, a good knife, &c.

Some feminines are formed by changing the termination of the masculine into ess, as count, countess; duke,

duchefs ; heir, heirefs ; lion, lionefs, &c.

The English language has three persons, vizs. I, the first; show, the scoond, sh show, it, the third, in the sine-gular number; and we, ye, you, they, these, in the plural; to which may be added who, whom or what. These distinctions are absolutely necessary as appears from the nature of speech, which is always employed about the person or persons, then immediately speaking, denoted by the characteristic I or we; the person or thing spoken oi, by show, ye or yau; or the person or thing spoken oi, by show, ye or yau; or the person or thing spoken oi, by show, be, it, they, &c. This is to be understood when they shad before an affirmation, as I warite, thuy warites, be waritesth, but in compound sentences, and after affirmations they are changed into me, thee, &c.

All qualities in English are the same in both numbers as a good man, ten good men, &cc. and unless some name be joined with it, to determine what quality it is to be understood of, it can never make the sense complete; as, yeas, bad, &cc. have no meaning till applied; as a good

boy, a bad horfe, &c.

When two names are compounded into one word, the

first becomes a quality, as, fea-fish, gold-cup, &c.
My, Thy, Her, Our, Your, Their, are called perfonal
psil-fives, and are only used when they are joined with
names, as, This is my horse, My coat, My book, &c.

but when the fense is not expressed immediately, but understood, or a question is asked, they are changed into Mine, Thine, Hers, Yours. Theirs; as, This kinse is mine; that is, This is my knife; Whose knife is this? Mines or, It is my knife, exc.

To qualities belong allo increase or diminution of the value, goodness or virtue of the name to which they are joined; and these are generally formed by adding er and eff to the plain simple word itself; as Fair. Fairer, Fairelt; though sometimes they are made by adding More or Most to the simple word, as Fairer or More fair, Fairelt or Most fair; exading and observation will quickly teach any perion where to introduce those in the most advantageous place. These four following are irregulars; Good, Beter, Best; Bad or Ill, Worle, worst; Little, Lefs, Lealt; Much, More, Most.

Singular number.

A or the man

Of a or the man

To a or the man

To the men

To the men

By, from or with a or theman

By, from or with the men

Singular,

A or the good horfe, &c. | The good horfer, &c.

Of a or the good horfe, &c. | Of the good horfer, &c.

We have already taken notice that the third clafs of words, is the affirmation and what its office is; we fiall only here observe, that it has two numbers, time, and perfon belonging to it, by which the beings action, or padino of the funject or name is declared or affirmed; for the expressing the true state of the time there is what are usually called auxiliaries, from or by which the times of other affirmations are expressed, there being only the present and the passing time naturally arting from the different endings of the words themselves; that is, the

prefent and the paffing, or past time, as love the prefent. and lov'd or loved the passing time. The present time, or the instant in which any thing is actually performing, &c. is diffinguished by the words do, dolf, or doth, for the fingular number: and do only for the plural, with the proper personal figns, I, thou, he, we, ve, they, &c, The passing time is an imperfect manner of expressing, and intimates fo much, having the fign did, or the termination ed : the past time shews the action complete, by affirming fomething with the fign bave : there is also what is called the preter pluperfest tense, and has the fign had affixed to it, the other is the future tenfe that affirms fomething shall or will be hereafter. And tho' there are really but three proper diffinctions of time, viz, the prefent, the paft, and the future, yet as our language, as well as others. hath various terminations, or manners of expression, we shall infert them: as to the dislinctions of what is commonly called moods, it is undeniably certain that they may be denominated as variously, and be as numerous as the particular circumstances require.

As what is called the potential and fuljunctive moods, are an undeniable proof of differing only by fome accidental figns; for which reason they are not here enumerated, but called the 1st, 2d, 3d, and 4th mood. The first declaring or making some positive affertion about, or relating to the fubject, or name. The fecond having only one tenfe and five perfons, and is employed wholly abont commanding or ordaining, praying or permitting fomething to be done without any specification of time. The third may be variously circumstanced, according as it has its expletives adjoining. And the fourth expresses the action barely and indefinitely as to time. The two auxiliaries fupply all others, with those tenses or times which they naturally have no proper termination or distinction for, viz. to have, by whose assistance all actives are formed, or fuch as import doing fomething; and to be, from which all passives are formed, that is, such as import fuffering or bearing fomething done to the fubject.

A Compendious English Grammate

Past tenfe:

The first or indicative mood.

Prefent tense.
Singular.
I—have
Thou—hadst
He—halb
They—have

Past tense,
Singular.
I — bad
Thou—badst
He—bad
To

I — had
| We — had
| Frou — had|| Ye — had
| He — had | They — had
| Pature tenfe, | Future tenfe, | Singular, | Plural.

I shall or will have | We | Shall or will have | Thou shall or will have | They | Shall or will have | They

Some make other diffinctions of time, but as they are only a coupling of those together, this short essay will not permit the disquisition; such as, I have had, I had had, &c.

The fecond or imperative mood.

Have thou. Let him, her, it have. Let us have. Have ye. Let them have.

The third or fubjunctive, potential, &c. mood, Is always diffinguished by adding fome fign of withing power, &c. as I may or can have; I might, could, should, or ought to have, &c.

The fourth or infinitive mood,

Is always diffinguished by the fign 10; as, 10 bave, to love, &c., from this mood that quality called a participle, is formed, importing possession; as baving, being, loving, &c.

The first or indicative mood. Present tense. Present tense. | Past tense. Past tenfe. Singular. Plural. Singular. Plural. Iwas We were I am Weare Ye are Thou wast Ye were Thou art He, she, it is | They are He was They were

A Compendious English Grammar.

Future tenfe. Future tenfe. Singular. Plural. I shall or will be.
Thou shalt or will be. Wo shall or will be. re

He shall or will be.

There are other expressions, called tenses, compounded of bave and this verb : as. I have been, &c. I had been. &c.

The fecond or imperative mood.

Be thou. Let him, ber, it be. Let us be. Be ye. Let them be.

The third or Subjunctive, &c. mood. That I may, can, might, would, could, should or ought to be, &c.

The fourth or infinitive mood. To be, to have been. Being.

From these all other affirmations regular and irregular are formed and completed, to express every possible circumstance of time, action, or passion; as for example,

First Mood.

I love, I loved, I have loved, I had loved, I shall or will love We We We

Thou love ! or dost love | Thou lovedst or didst love Ye love or do love Ye loved or did love

Thou hast loved Thou hadst loved Ye have loved Ye had loved Thou shalt or wilt love

They shall or will love

Second Mood.

Love thou; love be, she, or it, or let him, her, or it love : love we, or let us love ; love ye, love they, or let them love.

Third Mond.

I, thou, he, she, &c. may, can, might, could, &c. love.

Fourth Mood. To love, loving, &c.

From what has been faid, it is observable, that the natural formations are made fuccessively, thus: first, something is affirmed by the first person singular; as I love,

then I loved, or did love, then I have or had loved : and afterwards thall or will love. But there are fome verbs. that are irregular, and instead of ending in ed, in the 2d and 3d tenses have particular endings of their own; as, I bear, bore, have born; I beat, have beaten; I begin, have begun : I behold, have beheld : I bend, have bent : I bind, have bound : I bite, have bitten : I blow, blew, have blown: I bleed, have bled; I breed, have bred; I bring, have brought; I break, broke, have broken; I am born, was born, have been born; I buy, have bought; I catch, have caught; I chide, chid, have chidden; I chufe, chofe, have chofen: I come, came, am come: I cleave, clove, have cloven: I cut, have cut: I creep, crope or crept, have crept : I crow, crew : I dare, durft : I deal. dealt: I do. did. have done: I draw, drew, have drawn; I dream, dreamt : I drink, drank, have drunk : I drive, drove, have driven ; I do eat, did eat, have eaten ; I fall, fell, am fallen : I feed, fed : I feel, felt : I do fetch, did fetch; I fight, have fought; I find, found; I fling, flung; I fly, flew, am flown; I fly, fled, am fled; I forget, forgot, have forgotten; I get, got; I gave, have given; I go, went, am gone ; I grind, ground ; I grew, grow, am grown ; I hang, hung, have hanged ; I hear, heard ; I hide, hid, have hidden: I hold, held: I keep, kept: I know, knew, have known; I lead, led; I learn, learnt; I leave, left; I lend. lent: I do let, did let, have let; I lie, have lain; I lye, lyed; I lofe, loft; I make, made; I mean, meant; I meet, met; I mifs, mift or miffed; I owe, have owed; I do, did have put; I do, did, have read; I ride, rid, have ridden; I ring, rung; I rife, rofe, am rifen; I do, did, have run; I fay, faid; I fee, faw, have feen; I feek, fought; I fell, fold; I fend, fent; I do. did, have fled; I shine, shone; I shoe, shod, I shoot, shot; I shrink, shrunk; I fing, fang or fung, I sit, fat or fate; I flay, flew, have flain; I fleep, flept; I flide, flid; I fling, flung; I fmell, fmelt; I fmite, fmote, have fmitten; I fpeak, fpoke, have fpoken; I fpend, fpent; I fpill, fpilled or fpilt; I fpin, fpun; I fpit, have fpit or spitten; I do. did, or have spread; I spring, or sprung; I spit or spat; I fow, fowed, have fown; I ftand, ftood; I ftink, ftunk; I ftrike, ftruck, have ftriken: I ftring, ftrung; I fwear, fwore, have fworn; I do or did fweat, have fweated; I fiveep, fwept : I fwim, fwam, have fwum ; I take, took. have taken; I teach, taught; I tear, tore, have torn; I tell, told; I think, thought; I thrive, throve, have thriven; I throw, threw, have thrown; I tread, trod, have trodden: I undexstand, understood: I weave, wove, have weaved : I ween, went : I win, won: I am, was, have been willing; I work, wrought; I wring, wrung; I write,

wrote, have written .

The fourth part is here univerfally called particles, under which denomination, all those small words that tie or unite the others together, or that express the modes or manners of words are fignified, and which ufually, by the common grammarians, are called adverbs, conjunctions, prepositions, and interjections. From the due use and connexion, of these four parts, are formed sentences; and from a number or multitude of fentences, arife regular difcourses, speeches, &c. A sentence consists of three words at leaft, by which fome idea of the mind is expressed; as lying is bateful. And this is called a simple sentence, wherein the name or thing is expressed but once, and something is affirmed of that fubicat: first, its being, and next. its mode of being, or elfe some action of the subject passes upon another, or at least is understood so to do. All others are compounded, wherein either the fame subject or name is repeated, or different ones affirmed fomething of ... &c. The name ordinarily is placed before the affirmation and is always really expressed or understood so to be; as, John loves Mary. And here it must always be obferved, that the fame number and person, that the name: whose action or passion is intended or expressed by the affirmation is, the same must the affirmation itself be; as in the example above, the name John, is the third person fingular, and fo is the affirmation loves: and in the following fentence, men love your wives; the name men is the fecond person plural, so is the affirmation. We admire. learning: here we is the first person plural and admire, is fo alfo; which is to be observed of all others.

DIRECTIONS

FOR

WRITING.

That endeavour to make this performance ufeful to those who defire to write well for common business; as allo to such teachers who want to be instructed in the first principles of the art of writing. And therefore I shall not trouble you with a long, unnecessary account of the dependence of all the letters in the several alphabets upon one another, that being easily diffeored (of for as is material) by any one who knows but the fundamental letters of each hand, which I shall only mention, and seave the

rest to your own observation.

The feveral forts of hands now in the among us, may be divided into two branches, viz. thofe of abfolute the for bulinefs, and thofe which are only ornamental. Those of abfolute use may be reckoned fits, the roundhand and tatian, in which most of the common affairs of trade, and the ordinary bulinefs of life, are written by all Europeans; the engreffing, fupare text, court, and chancery hands, in which all the various bufinefs of the law is generally transfaced and, recorded. The other hands, viz. the old English. the Roman and Italian prints, the German text, &c. are only made use of by way of ornament, or for curiofity in fonce particular cases, and therefore the writing of them is not element of such a course of the c

The principal things to be aimed at in order to write any hand well, are those two; first, To get an exact no-

tion or idea of a good letter, which may be done by a frequent and nice observation of a correct copy; the other is, To get such a command of hand, as to be able to express, with the pen, that idea upon the paper, which is attained by constant and careful prastice after good examples; the learner being first informed of the most necessary things to be observed in his practice of that hand he intends to be mafter of. I shall therefore.

1. Mention fome things to be generally observed in writing.

II. Give fome directions for holding the pen.

III. Shew the nature of the pen, with particular rules

and proportions for writing each hand.

And, fourth Laydown some proper directions for young persons, whea they first enter upon business, in order to bring them to write a good hand with expedition, and to make them place figures after the most beautiful and practical manner.

I. The effential properties of a good piece of writing are, a due proportion of the characters throughout the whole; a jult diffance between the letters themfelves, as well as the words; with a natural leaning or inclination of the letters one to another a clean, fmooth fitoke, performed with a mafterly boldnefs and freedom, without which, the most regular piece is like a dead corps, whose features, tho they may be exact in symmetry, yet want that spirit which only can render it an object both valuable and delightful.

The proportion of the feveral letters in most hands, is generally regulated by the and n, therefore let the mathing of them be first carefully practifed, and then the other letters which come from them, all which must be of the fame width and fulness of flrokes as they are of.

The proportion and shape of the letters in any hand, ought to be the same, whether they are written in a large or insul faze; therefore, let every hand be first learned in a large-charaster, which will not only sooner fix the idea of a good letter in your mind, but also give you a greater freedom and in a shorter time, than writing of the small will, it is ecrain, that the losser is shown to so the same of the

13

the greater; and he that attains to write any hand large,

may toon write it as imain as ne pleases.

Let all (frokes, which are the conflituent parts of a letter; or, (as fome call them) the body-frokes, be made with the full pen, and of the fame thickness one with another as near as is conflictent with the nature of the hand

you are writing.

Let all the Hokes which join the conflituent parts of letters, or the letters themselves together, be made with the corner of the pen, and as fine as the hand will admit of; which throkes must always have some propriot to the body-flrokes, and must be thicker, or thiner, according as the character is leffer, or greater: turn not your pen, neither alter the polition of your hand, but let it move with a steady, easy motion, and perform every letter without catchings, and convolute furtherings.

Let the fine strokes answer one another, in a kind of

opposition, and in many hands run parallel.

Let all the letters which have not flems above or below the line, be even at top and bottom. Let those which have stems above the other letters be equal in length to A, except I, and a few other letters in fome hands. Let those which have flems below the line, be equal in length to the J, some few excepted, which may be seen by the alphabets of the feveral hands in the examples.

Let the capital letters be equal in height to the little /.

and a fmall matter stronger.

Let the distance between words be double to that be-

tween letters.

Let the lines be of fuch a distance that the stems of the letters may not interfere one with another; to prevent which they must be at least twice the length of an / asunder.

II. The next thing is, directions for holding the pen, and fitting to write.

Hold your pen between the two fore-fingers, extended almost thraight, and the thumb bending a little outward, and in your right hand, with the hollow fide of the pen downwards, and the nib flat upon the paper; let it rest between the two upper joints of the fore-finger, and upon the end of the middle one, about an inch from the nib of the pen, the ends of the little singer, and that which is next to it, bend in towards the palm of the hand, about half an inch distant from the end of the middle finger.

Let the book or paper ly directly before you, and your hand rest only on the top of your little finger; let no other part of your hand or wrift touch the paper or defk : rest your arm very lightly between the wrist and elbows Keep your body upright, and from touching the desk : let your elbow be almost close to your side, and the pen pointed towards the outer part of your left shoulder: so that a line being drawn from the inner part of the arm. at the bend of the elbow to the nib of the pen, will be nearly at right angles with the line you are writing upon. And for the flope hands, turn your left fide a little towards the desk; but the upright ones, let the body be directly before it, and the right elbow turned outwards from your fide: fo that a right line being drawn from the inner bend of the elbow to the nib of the pen. will make an angle, near 45 degrees with the line you are writing upon. Let the weight of your body rest upon your left arm, and the paper be kept down with your left hand.

Take care of preffing hard upon your pen in writing

any hand.

III. As to the nature of the pen, and the particular rules and proportions for writing each hand, though they might be fwelled up to a very great number, by ealarging upon every critical nicety, yet I shall deliver only such, as, in my judgment, are most necessary, most beautiful, and most amplicable to expeditious practice.

Make the nib of your pen for the round and round text hands, the breadth of the full stroke, and that part lying

next the hand fornewhat fhorter and narrower.

For the Italian hand make the nib fornewhat finer, and

the flit longer.

Note, in writing, where figures are intermixed, they must always slope.

Your figures likeways must be larger than your writ-

When your figures are ranged in columns, make them upright.

To make a PEN.

AKE the first, second, or third quills in the wing of a goose or raven (those that are round, clip and clean are the best :) when you have scrap'd off the thin rind thereof, with the back-edge of your pen-knife, hold it in your left hand with the feathwend from you, then enter the back thereof floping, and cut off as much in length, us the quill is in breadth, and answer that with a nother cut on the infide, like an opposite to the former: then turn the quill, and enter the edge of your pen knife even in the back thereof, and exactly in the middle of the half round, neither inclining the blade one way or other. that the skit may not be made awry. Then put in the peg of your knife haft, if it has one for that purpose, or the end of a whole quill, and with a fudden twitch, force up the flit, holding your left hand thumb hard upon the back of the quill, to put a stop how far the sit shall go. This being done, enter your knife floping in the other fide above the flit, about twice the breadth of the quill, and cut away the cradle-piece; then turn the back upwards, and cut down to the end of the flit, the cheek or shoulderpieces; and in fo doing, turn the knife on both fides towards the back. After this, place the infide of the end or nib of the pen, upon the nail of your left hand thumb. holding the quil falt between the fore-finger and middle finger of that hand. Lastly, to finish the nib, enter the edge of the knife on the back, and near the end thereof floping, and immediately turning the edge almost downright, cut it off.

There are four confiderations belonging to the quill.

If the quill be too hard, steep it a while in water.

If it be too foft, harden it with embers.

If it be too thick, pare a small quantity from the back of the nib.

If it be too thin and weak, strengthen the pen with a short slit, a short nib, and broad shoulder.

Best BLACK INK.

To fix quarts of rain or river water (but rain water is the beft) put one pound and a half of fresh blue galls of Aleppo (for those of Smyrna are not strong enough) bruiled pretty small, eight ounces of copperas, clean, rocky and gropp, eight ounces of order allows: let these stand together in a large stone bottle, or clean stone pot, or earthen pot, with a narrow mouth to keep it free from dust, stake wow, and stir it well once every day, and you will have sine ink in about a month's time, and the older is grows, the better it will be for use

Ingredients for a Quart.

One quart of water, four ounces of galls, two ounces of copperas, and two ounces of gum, mixed and stirred as above.

LONDON INK POWDER,

TAKE ten ounces of the cleareft not-galls, bruife them, and fift the powder very fine, then add white copperas two ounces, Roman vitriol three ounces, gam arabick or fandarack an ounce, bruife and fift them very fine, fo that tho' they appear white, a little being put into water, will in a little time turn it, and an ounce of powder will make a pint of very black ink.

JAPAN or SHINING INK.

TAKE gum arabick and Roman vitriol, of each an ounce, galls well bruifed a pound, put them into rape vinegar, or vinegar made of clear fimall beer; let them remain in a warm place, often effiring, till the liquor becomes black, then add to a gallon, an ounce of ivory black, and a quarter of a pint of feed lac-varnifh, and it will be a curious black fibring iak.

A Powder Ink to rub on paper, and write on.

BRUSE about twenty nut galls, and half an ounce of Roman vitiol, as much gum arabic and gum fan-darack, mingle thefe finely together, when well bruifed and fifted to powder, rub the paper hard with it with cotton wool, and polifising it with a piece of ivory, write with water, and in a little time the letters you write will appear a fair black, as if written with the beft link.

To make RED INK.

Take three pints of flale beer (rather than vinegar) and four ounces of ground brazile wood, fimmer them together for an hour, then put in four ounces of roch allum, and these three are to simmer together for half an hour, and then strain it through a slannel, and bottle it up, well slopped, for use.

To keep INK from freezing or moulding.

IN hard frosty weather, ink will be apt to freeze; fwhich, if once it doth, it will be good for nothing; for it takes away all its blackers and beauty: to prevent which, if you have not the conveniency of keeping it warm, or from the cold, put a few drops of brandy, or other fiprits, into it, and it will not freeze. And to hinder its moulding, but a little falt therein.

SPANSE ZE ZE ZX (& E ZE ZE ZEAND

COPIES for WRITING.

Single COPIES in profe, in an alphabetical order,

A Wife mah's anger is of thort continuance
Adverfity is the touchildon to a true notion of things
Approve not of that man who commends all you fay
A flattering companion is a dangerous enemy

A wife man governs with eafe, and is obey'd with pleafure

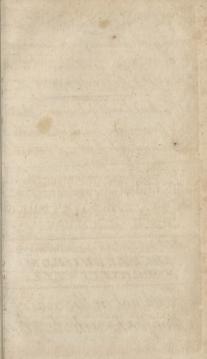
A covetous man is always in want Add to your faith, virtue, and to virtue, knowledge A prudent man values content more than riches A virtuous mind is rather to be chosen than promotion. Authority is the main point in government Abstain from all appearance of evil A merry heart maketh a chearful countenance Anger refleth in the bosom of fools A foft answer turneth away wrath Advertity makes a man wife, rather than riches

Advice comes too late when a thing is done

E more afraid of fecret fins, than open shame Brave spirits promote the public good Be patient in advertity, and humble in prosperity Beanty without virtue is like a painted fepulchre Be less confident and more diligent By learning to obey, you shall know how to command Brave men will do nothing unbecoming themselves By diligence and industry we come to preferment Buy thou the truth, and fell it not.

ONTENTMENT makes a man happy without a Children require instruction as well as provision Commit not that to another, that you can do yourfelf Custom in infancy, becomes nature in old age Chide him not too much, who confesses his fault Courtefy and humility are marks of gentility Confession of a fault makes half amends for it Contentment is preferable to riches and honour Confider the shortness of life, and certainty of death Competency with content is a great happinels.

EATH destroys not the foul, but an ill life does Delight in what you undertake to learn Drinking is the drowning of cares, not the cure of them



- Count Sound wholefighijktlmnopgresturmen = 01369 8.FG 16.9 JR.L. 11 NOOPLR. S. PHY WILL Mothat loveth pleasure shall be a poor man, he that lovethe wine and out shall not be rich GermanText abedefabigklumoparlstuvivan = मित्राची मित्र से स्थान से किया है कि राह्यां हरी ये या समार abedefgbijklmnopgrfslurmxyz ABCDEF GHIJKIM NOPQRSTUVWZYZ Speaknot in the cars of a foot for he will despise

Taken Vano

Ladore ffshijkllen noperfituen en

1.B6D6.FG. G. G. G. G. C.

N.O. G. G. R. S. F. U. G. W. W. V.

Riches are not for over 3 dolk the

rown endure to every generation r.

Engroßing

Engraling O Southfilish may at follow with 1930 Ses Stoots san at op 2928 Choops you

ocdefghijklinnopgrfstuvwxyz ABCDEFGHIJKLMN OPQRSTUVWXYZ

Kunning hand for it men. for in the problem of the fortish and live and go in the way of understanding

Do unto others as you would have them do unto you Death will comfortably end a well frent life Devife not evil against thy neighbour Do not render evil for evil unto any man Drunkennefs reveals what fobernefs conceals Do not govern your life by fancy, but by reason Delay in many cafes is dangerous

E

EVERY delay of repentance is a cheat upon ourfelves
Education is that which maketh the man
Every prudent man dealeth with knowledge
Exalt wifdom, and fine fhall promote thee
Eafe and honour are feldom bed-tellows
Evil company makes the good bad, and the bad worfe
Every idle thought to indement mult be brought

RSAKE the foolifh, and go in the way of un-

Follow the dictates of reason, and you are safe Forget not God in your mirth, nor yourself in your an-

First learn to obey, before you pretend to govern Feed your body as your slave, not as your master Fools make a mock at sin Few do good with what they have gotten ill Future events must be left to providence Frozality and industry are the hands of fortune.

G
IVE God the first and last of each day's thought
Grieve not for those things which are out of your
power
Great fins require great repentance

Good education is the foundation of man's happiness Give as chearfully as you receive God often corrects us in this life to fave us in the next God is our refuge, a very prudent help in trouble Good manners, grace and truth are ornaments in youth Greater profit doth always come of learning than of play Good men are fafe when wicked men are at odds

H
Happines is defired by all, but obtained by few
He is in some degree wise that conceals his ignorance
He that begins well has done half the work
Hear both parties before you give judgment
He that boals in his sing slories in his shame
He never wants comfort that has content
Hear, ye children, the instruction of a father
Hear instruction; be wise, and refuse it not
He that sins against conscience, sins with a wintess
He that swins in sin must sink in sorrows.

T:

If riches encreafe, fet not your heart upon them In prosperity prepare for adverfity Idleness has no advocate, but many friends le requires as much care to keep, as to get an estate Industry keeps the mind clear, and the body healthy In the multitude of counsellors there is safety Industry is fortune's right hand, and frugality her left Instruction and a good education is a durable portion It is good to have a friend, but bad to need him.

K

KEEP back thy fervant from prefumptuous fins Knowledge is the treafare of the mind Know when to fpeak and when to hold your tongue Keep company with those who may make you better Keep thy tongue a prisoner, that thy body may go free Knowledge puss up some men and humbles others Keep by tongue from evil, and thy lips from guile: Keep good company, and you shall be of that number Keep a close mouth, if you would have a wife head Keep at a distance from ill company Kings may win crowss, but cannot conquer death.

L

L EARNING is the ornament of youth, and comfort

Lament not the loss of that which ye cannot retrieve Lying lips are an ab mination to the Lord Let another man praise thee, and not thy own mouth-Love not sleep, lest thou come to poverty Life without a friend, is death with a winness Learn to live as ye would wish to die Liberty is grateful to all but destructive to many Let not the work of the day-be put off till to-morrow

MERCY and truth (hall, follow them who devife good Man has much to learn, but a short while to live Malice feldom wants a mark to shoot at Make provision for want in time of plenty My fon, if sinense entice thee, confeat thou not My fon, gather instruction from thy youth up Many know good, but do not the good they know Many live beggars all their life, that they may not die fo Many are led by the ears more than by the understanding

Many are made faints on earth, that never reach heaven. Mend your manners, and that will mend your fortune.

No torments are fo great, but patience may van-

Nothing is more contagious than an ill example, Not to grow better is commonly to grow worfe. No man hath feen God at any time. None flould cover what cannot possibly be had. Nothing is constant in this uncertain world. Nothing is fo hard, but diligence may overcome Nature feldom changes with the climate.

OUR life here is but a journey to the next worldOf all prodigality, that of time is worlt
One vice is more expensive than ten virtues
One fault cannot justify the commission of anothen
One bad companion may roin many good men.

Of all poverty, that of the mind is most deplorable Of all things, death should never be forgot Only by pride cometh contention Once well done is twice done On present time depends our future state Other peoples deaths should be momento's to our own

PROVIDENCE confuls our wants, not wantonnefs
Profperity gains friends, and adverfity tries them
Pation is a bad councillor, and as ill a fpeaker
Pride, like a wild horfe, overthrows his idder
Purfue ufeful and profitable fludies
Poverty and hame attend those that refuse instruction
Provide against the worst, and hope for the best
Poor men want many things, but coverous men all
Put not off the main business of life to the very article
of death

Poor freedom is better than rich flavery.

UENCH not the fpirit, pray without ceasing Quick at meat, quick at work Quick promisers are flow performers Quict promisers are flow performers Quietness and content are mates most excellent Quiet men have quiet minds, and enjoy content Quarrelsome perfors fomertimes meet with their match.

REPENTANCE is the physic of the fool
Remember not the fins of my youth
Religion is the best understood when most practified
Revenge not injuries, but forgive them
Reality is now become a great rarity
Riches profit not in the day of wrath
Remember thy Creator in the days of thy youth
Remember your duty to God, your neighbour, and
yourself

Repent to day, to-morrow may be too late.

HAME and difgrace finall be the portion of fools in goes before, and fhame certainly follows after silence is an antidote againfl an envious tongue Saying and doing finould be but one man's office Shew me a liar, and I will fine wy ou a thief Sin and forrow are infeparable companions Soft words fometimes work upon the proudeft hearts

m

THERE are none so poor as those whom God hates
To he hope of reward sweetens labour
To praise youled is the way to be dispraised
The power of example prevails more than precept
Truth is as simmed of nothing but to be his
The greatest talkers are always the least doers
The worth of a thing is best known by the want of it
Those who wo'nt mend to-day, shall have more work
to-morrow

The doing nothing is very near doing evil To do good is the way to find it Time and tide will for no man flay

Ü

Use Loft words and hard arguments
Unlawful love ends generally in bitterness
Unto the upright there rifes light in darkness
Undertake deliberately, and execute vigorously
Unfanchlifed profiperity is the bane of virtue
Unto thee will Levy, O Lord, be not silent to me
Unwillingly go to law, and willingly make an end.

VIRTUE is commended of all, but followed by few Value not yourfelf by another man's opinion Virtue often fuffers, when vice goes unpunified Valour can do little without difcretion Virtue to nobleft acls the mind inclines Variety is the beauty of the world Virtue is first to be fought and money next,

W

VISE men keep their expences faort of their income Whatever is forbidden in acf is alfo in thought Wicked practices diffoure bad principles. Would you be wife, endeavour to be good Wifdom to the mind is like health to the body We must not blame fortune for our own faults Would you be rich, be indulfrious; if wife, be fludious Where there is no fault, there needs no pardon When passino rides then give reason the reins

X

ERXES wept at the shoughts that his vall army would be dead in 100 years
Xenophon accounted the wife man happy
Xenophon was a learned general
Xerxes whipt the fea, because it would not obey his

Xerxes wept at the changeable state of man-

v

YOUNG men fee that you honour the aged Youth is full of diforder and age of infumity. You may know men by the company they keep Young men go to death, but death goes to old men Young men in Itength should provide against age and weakness

Your vice, and not your poverty, is your shame You must crack the shell before you can have the ker-

Yield quietly to what must come unavoidably,

7

ZEALOUSLY strive for an eternal crown Zeal grounded on knowledge enlivens devotion Zeal for religion cannot warrant revenge Zeal in a good cause, commands applause Zeal without knowledge is but religious wild-fire Zeal, if not rightly directed, is very pernicious.

A S you expect that men should deal by you, So deal by them, and give each man his due. Better it is to gain great reputation,
Than heap up wealth with trouble and vexation,

Constraint in all things makes the pleasure less:
Sweet is the love that comes with willingness.

Despair of nothing that you would attain: Unweary'd diligence your point will gain.

Experience best is gain'd without much cost:

Read men and books; then practife what thou know'st.

Fortune may fometimes prove true virtue's foe,

But cannot work 'her utter overthrow. Greatness in virtue only's understood:

None's truly great, that is not truly good.

Honour's a god that none but fools adore:

The wife have nobler happiness in store.

If all mankind would live in mutual love, This world would much resemble that above.

Kingdoms, like private persons, stave their fate, Sometimes in high, sometimes in low estate.

Let each man follow close his proper trade, And all affairs will foon be better made.

Men's fancies vary strangely, like their faces, What one commends, another man disgraces.

Number itself is at a loss to guess
Th' endurance of our future happiness.

Oh! that the fons of men would once be wife,

And learn eternal happiness to prize!

Pray thou to God, that he may be inclin'd

To grant thee health of body and of mind.

Quarrelfome brawling, gaming, fuddling, shun: Thrice happy they, that ne'er such courses run. Remember, time will come, when we must give

Account to God, how we on earth do live.

Some men get riches, yet are always poor;
Some get no riches, yet have all things fore.

They that are proud, and other men distain, Do often meet with scorn and hate again. Virtue is prais'd but little prastis'd by us: So loose the age, that sew are truly pious.

What's human life? a day, a race, a fpan, A point, a bubble, froth: fo vain is man. Xenophilus did well in health abide One hundred feven years, and then he dy'd.

Young men, take pains, be brisk, and I'll engage, Your youthful pains will pleafure yield in age.

Zaleucus made his laws so strict, that those, Who acted whoredom, both their eyes should lose.

Of the POINTS or STOPS, and other MARKS used in writing and reading; with their characters, places, and fignifications.

THE flops are used to shew what distance of time must be observed in reading: and they are so absolutely necessary to the better understanding of what we write, and read, that without a strict attention to them, all writing would be confused, and liable to many misconstructions.

Stops, confidered as intervals in reading, are but four, viz., comma, femicolon, colon, and period, or fa!! flop: and thefe bear a kind of mufical proportion of time one to another: for a comma flops the reader's voice, while he may privately, with deliberation, tell one: the femicolon, two; the colon, three; and the period, four.

Their characters are thus,

Comma (,) a circular dash at the foot of a word. Semicolon (;) a point over the comma.

Colon (:) two points.

Period (.) a fingle point at the foot of a word.

But if a question be asked, there's a circular stroke upon a short line put over the period, and 'tis called an interrogation, thus (?).

If a fudden wondering be expressed, then a straight line is placed over the period, and 'tis called a note of

admiration, thus (!).

If one fentence be enclosed within another, of which it is no part, then 'tis put between two large half circles called parenthelis, thus (), and, in reading, this doth fomething lower the tone of the voice, as a thing, that comes in by the bye, interrupting the main coherence of the period, and relitationing it from being taken in fo large a fenfe as it might otherwise bear. Each part of it is cough in time to a comma.

These that follow, are the most usual marks in writ-

ing.

Accent (') being placed over a vowel, denotes, that the tone, or stress of the voice in pronouncing, is upon that syllable.

Apostraphe (') a comma at the head of letters, denotes some letter, or letters, lest out for quicker pronunciation, as I'll, for I will; wou'd'st, for wouldest;

flia'n't, for fhall not; ne'er, for never,

Afterism (*) a star, guides to some remark in the margin, or at the foot of the page. Several of them set together signify, that there is something wanting, defective, or immodest in that passage of the author-

Breve (") is a crocked mark over a vowel, and de-

notes that it is founded quick or fhort.

Caret (4) is placed underneath the line, and denotes that some letter, word, or sentence is lest out by mistake, and must be taken in exactly where it points.

Circumflex (^) is in the fame shape as caret, but is always placed over some yowel of a word, to denote a

long fyllable.

Dieress (**) is two points placed over two vowels of a word, that would otherways make a diphthong, and

parts them into two feveral fyllables.

Hyphen (-) is a straight mark a cross, which, being fet at the end of the line, denotes that the fyllables of a word are parted, and that the remainder of it is at the beginning of the next line.

Here note, that whenever a word is thus parted, the fyllables must be carefully separated by the rules of spelling.

Tis used also to join, or compound, two words into one; as, Ale-house, Inn-keeper.

Being placed over a vowel it is not then properly called a Hyphen, but a Dash, which in writing signifies the omission of m or n; as, Nothing is more comea-

dable tha fair writing; for, Nothing is more commendable than fair writing.

Index (c) the forefinger pointing, fignifies that palefage to be very remarkable, against which it is placed.

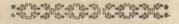
Obelisk (+) is used as well as the afterism *. to refer the reader to the margin. In dictionaries it commonly denotes a word to be obsolete, or less in use.

Paragraph (9) or division, comprehends several sentences under one head, or subject.

Parenthelis I. 7 or brackets, include words or fentences of the same value and fignification with those they are joined to, which may be ofed in their stead.

Quotation (") or a double comma reverse, at the beginning of a line, shews a passage quoted out of an author in his own words.

Section (6) or division, is used in subdividing of a chapter, or book, into leffer parts or portions,



ABBREVIATIONS.

Bbreviations are very necessary for dispatch of businefs. For by them, we expeditionfly express, or fet down a long word, shortening it, by making some initial letter, or letters, belonging to the word, to express it: as in the Table following.

A. B. Artium baccalaureus, or batchelor of arts Abp. archbishop Acct. account A. D. Anno Domini, or the year of our Lord

A. M. Anno mundi, or the year of the world Admrs, administrators A. M. Artium magister, or mafter of arts

Ana, of each a like quantity

Adml admiral Agt. against Amot, amount Aug. August A. R. Anno regni, or inthe year of the reign B. A. batchelor of arts. B. D. batchelor of divinity B. V. bleffed Virgin

Bart, baronet Bo, bishop

Ap. apolile

G. chapter
Cant. Canterbury
Cent centum, or hundred
Chao. chancellor
Chap. chapter

Chap. chapter
Capt. captain
Gl. clericus, or clerk
Co. company
Col. Coloffians, colonel

Conrs. commissioners Con. Constance

Cr. creditor C.C.G. corpus Christicol.

C. S. cultos figilli, or the keeper of the feal

C. P. S. custos privitati sigilli, or keeper of the

Dr. doctor

D. denarii, or pence

Dec. or xber, or 10ber, December Devon. Devonshire

Decd. deceased
Doct. doctrine
D. D. doctor of divinity
E. g. exempli grati, or for

example
Efq; efquire
Exon. Exeter

Feb. February Gent. gentleman Hund, hundred

i. e. id est, or that is
I. H. S. Jesus hominum falvator, or Jesus Saviour

of men Inft. inftant Jan. January

Jno. John

Knt. knight
L libræ, or pounds
Lieut, lieutenant

L. L. D. legun doctor, or doctor of laws

Mar, March M. A. master of arts

Maj. Majesty Mons. monsieur

Mr. master Mrs. mistress

M. D. medicine doctor, or doctor of physic

M. S. memoriæ facrum, or facred to the memory; also manuscript

N. note N. B.

N. B. nota bene, note, mark well, or observe N. S. new stile

No. number
no. l. non liquet, or it does

not appear. Nov. or ober, November

Obj. objection
O. W. old word
O. S. old ftile

Oct. or 8ber, October Oxon Oxford

p. per, or by

per ct, per centum, or by the hundred Parl, parliament

Philom philomathes, or low ver of learning Philomath, philomathematicus, or a lover of

mathematics P. S. possicript

Q. queltion

30

q. d. quasi dicat, or as if he should say q. l. quantum libet, or as

much as you please q. f. quantum sufficit, or a sufficient quantity

qr. quarter, or farthing Rev. reverend

Rob. Robert Reg. prof. regus professor

Rt. Hon. right honourable
S. A. fecundum artem, or
according to art

St. faint Sect. fection

Sept. or 7ber, September Serj. ferjeant Serv. fervant

Salop. Shropshire

Sr. fir
fs. femiffis, or half a pound
S. S. T. P. facto-lancts

theologiæ professor, or professor or doctor of divinity

The. Theophilus

V. verse Viz, videlicet, or to wit, or

that is to fay Will. or Wm. William

wp. worship Xn. christian Xt. Christ

Xtopher. Christopher

ye. the yn. then yo. you ym. them

ym, them yt, that yr, your

2. zcal &c. et cetera, or and the rest, or and such like

CIVACIVAD&X&#_#&X&CIVAD&X\50 CIVACIVAD&X&#_#&X

To write on Paper GOLD LETTERS, called SHELL GOLD.

L AY a little leaf gold upon a fine earthen plate, and drop thereon a little clear wign's house, then work it up with your clean knife's haft, until it is fiffi like unto a palle, which put into an oyfler-fhell, and do it clofe; when you are to write with it, put a little gum water on the fide of the gold, and mix a little thinly fit for your pen.

How to write SECRET LETTERS.

WRite what you would have feen on one fide of the paper with common ink, and on the other fide with milk, that which you would have feeret; and when

you would make the fame legible, direct your friend to hold that fide, which is written with ink, to the fire, and the milky letters will flew bluish on the other fide, and easy to be read.

Another Way.

You must write a letter that may carry good sense, to your friend, but let the lines be wide a sinder: then between these lines write your scere letter, with gall water only, wherein the galls have been insused but a little time; for if after you have writen with it, there be any sense the word water with the your must shrow away the water, and make new; this being dry, and of one colour with the paper, will give no cause of sufficient sense in the sense when the sense will be sense as the sense when the sense will be sense the sense when the sense will give no cause of sufficient sense sense with the paper, will give no cause of sufficient sense sense when the sense will be sense when the sense will be sense with the sense with the sense will be sense with the sense will be sense with the sense with the sense will be sense with the sense with the sense with the sense with

To write both Blue and Red Letters at once, with the fame ink and pen, and upon the fame paper.

DUT the quantity of a hazel out of litmofe blue to three spoonfuls of conduit water, wherein some pun arabic is dussiblevel; and when it hat fettled the space of an hour, if you write thetewith you shall have perfect blue letters: and if you dip a pencil in the juice of lemons, and wet some part of the paper therewith, and afterwards let your paper dry again, and then write upon the place where the juice of the lemon was laid, with your blee ink, the letters will finddenly become red, and in all the relf of the paper, the letters will be blue.



A Poem in praise of the invention of Writing

B Left be the man! his memory at leaft, And taught fucceeding times an eafy way. Their fecret thoughts by letters to convey: To haffle absence, and secure delight. Which till that time was limited to fight. . The parting farewel fpoke, the last adieu. The less ning distance past, the loss of view. The friend was gone which fome kind moments pave-And absence separated like the prave. When for a wife the vouthful patriarch fent. The camels, jewels, and the steward went, And wealthy equipage, though grave and flow, But not a line that might the lover show : The ring and bracelets woo'd her hands and arms. But had the known of melting words the charms . That under fecret feals in ambush lie, To catch the foul, when drawn into the eve. The fair Affyrian had not took his guide, Nor her foft heart in chains of pearl been ty'd.

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LETTERS

On Compliment, Bufiness, and several other important Occasions.

Here prefent you with a colledion of ufeful letters on fuch fubjets as may naturally occur to a young man, both before, and at his first fetting out in the world; which, if read attentietly, and copied carefully, will foon correct his orthography, amend his manner of writing, and serve him to form a tolerable site.

LETTER I.

From a Father to his fon, on his keeping bad company, bad hours, &c. in his apprenticeship,

Dear Son.

Am very much concerned to hear, that you are of late fallen into bad company; that you keep bad hours, and give great uneafineds to your mafter, and break the rules of his family; that when he expollulates with you on this occasion, you return pert and hold ani/wers; and, initead of promiting or endeavouring to amend, repeat the offence; and have entered into clubs and foicities of young fellows, who fet at nought all good example, and make fuch perfons as would do their duty the fubiled of their ridicule, as perfons of narrow minds, and who want the courage ro do as they do.

Let me, on this occasion, expostulate with you, and

fet before you the evil of the way you are in.

In the first place: What can you mean by breaking the rules of a family you had bound yourfelf by contract to observe? Do you think it is honest, to break thro' engagements into which you have fo folemnly entered: and which are no less the rules of the corporation you are to be one day free of, than those of a private family ?---Seven years, feveral of which are elapfed, are not fo long a term, but that you may fee it determined before you are overfit to be trufled with your own conduct; twenty-one or twenty-two years of age is full early for a young man to be his own master, whatever you may think; and you may furely stay till then, at leaft, to chuse your own hours, and your own company : and, I fear, as you go on, if you do not mend your ways, your diferetion will not then do credit to your choice. Remember, you have no time you can call your own, during the continuance of your contract; and must you abuse your master in a double sense; robhim of his time, especially if any of it be hours of business; rob him of his rest; then break peace in his fami. ly, and give a bad example to others? and all for what?

why, to riot in the company of a fet of perfons, who contenne, as they teach you to do, all order and difcipline; who in all likelihood, will lead you into gaming, drinking, fwearing, and even more dangerous vices, to the unhinging of your mind from your bufiness, which must be your future future.

Confider, I exhort you, in time, to what these courses may lead you. Confider the affliction you will give to all your friends, by your continuance in them. Lay together the fabiliance of the conversation that passes in a whole evening, with your forthy companions after you are come from them; and reflect what folid truth, what ufeful lesson, worthy of being inculcated in your future life, that whole evening has afforded you; and confider, whether it is worthy breaking thro' all rule and order for ?--whether your present conduct is such as you would allow in a fervant of your own? whether you are fo capable to purfue your bufiness with that ardour and delight next morning, as if you had not drank, or kept bad hours, over night? if not whether your mafter has not a double lofs and damage from your mifpent evenings? whether the taking of fmall liberties, as you may think them, leads not on to greater? for, let me tell you, you will not find it in your power to stop when you will; and then, whether any restraint at all will not in time be irksome to von ?

I have gone through the like fervitude with pleafure and credit. I found myfelf my own mafter full foon for my differetion : what you think of yourfelf I know not : but I wish you may do as well for your own interest, and reputation too, as I have done for mine; and I'll affure you, I should not have thought it either creditable or honest to do as you do. I could have flood the laugh of an hundred fuch vain companions as you chuse, for being too narrow minded to break through all moral obligations to my mafter, in order to shew the bravery of a bad heart, and what an abandoned mind dared to perpetrate. A bad beginning feldom makes a good ending, and if you were affixed that you could flop when you came for yourfelf. which is very improbable, how will you answer it to eouity and good confcience, that you will do fo for your mafter? There is, let me tell you, more true brayery of mind in forbearing to do an injury, than in giving offence.

You are now at an age when you should study to improve, not divert, your faculities. You should now lay in a fund of knowledge, that in time, when tipened by experience, may make you a worthy member of the commonwealth. Do you think you have nothing to learn, either as to your buinces, or as to forming of your mind? would it not be much better to chust the filent, the sobe conversation of books, than of such companions as never read or think; an author never commits any but his best shoughts to paper; but what can you expect from the laughing, notly company you keep, but frothy prate, in-digested notions, and thoughts so unworthy of being remember'd, that it is the greatest kindness to forget them?

Let me intreat you then, my dear fon, for your family's fake, or for your own fake, before it be too late, to reflect, as you ought, upon the course you are enter'd into. By applying yourfelf to books, instead of fuch vain company, you will be qualified in time for the best of company, and to be respected by all ranks of men. This will keep you out of unnecessary expences, will employ all your leifure time, will exclude a world of temptation ons, and open and enlarge your notions of men and things, and, finally, fet you above that wretched company which now you feem fo much delighted with. And one thing let me recommend to you, that you keep a lift of the young men of your standing within the compass of your knowledge, and for the next feven years, observe what fate will attend them; fee, if those who follow not the course you are so lately entered into, will not appear in a very different light from those who do; and from the indultry and profperity of the one, and the decay or fai-Jure of the other (if their vain ways do not blaft them before, or as foon as they begin the world) you'll find abundant reason every day to justify the truth of the obfervations I have thrown together. As nothing but my affection for you could possibly influence me to these expostulations, I hope for a proper effect from them, if you would be thought well of by, or expect any favour from,

Your master will, at my request, fend me word of the fuccels of my remonstrances.

LETTER II.

Advice from an uncle to a young beginner, &c.

Dear Thomas,

As you are now entering into the world, and will probably have confiderable dealings in your bufine's, the frequent occasions you will have for advice from others, will make you desirous of singling out among your most intimate acquaintance, one or two whom you would

view in the light of friends.

In the choice of these your extrool care and castion will be necessary; for by a little mislake here you can fearcely conceive the stata effects you may hereaster experience; wherefore it will be proper for you to make a judgment of those who are fit to be your advisers, by the conduct they have observed in their own affairs, and the reputation they bear in the world. For he who has by his own indiferentions undone himself is much fitter to be fet up for a land mark for a prudent mainer to show his course, than an example to follow.

Old age is generally flow and heavy, youth headliftong and precipitate: but there are old men who are full of vivacity, and young men replecified with diferetion; which makes me rather point out the conduct than the age of persons with whom you should chuse to affociate; the after all, it is a never lailing good sign to me of predence and viruse in a young man, when his feniors chuse

his company, and he delights in theirs.

Let your endeavours therefore be, at all adventures, to confort yourfelf with men of fobriety, good feels and virtue; for the proverb is an unerting one, that fays, A man is known by the company he keeps. If footh nen you can fingle out, while you insprove by their convertation you will benefit by their advice: and be fure remember one thing, that tho' you mult be frash and unreferred in delivering, your fentiments, when occasions ofter, yet that you be much readier to bear than feek; for to this

purpose it has been fignificantly observed, that nature has given a man two ears, and but one tongue. Lay in therefore by observation, and a modest silence, such a store of ideas, that you may, at their time of life, make no worse figure than they do; and endeavour to benefit yourfelf rather by other peoples ills than your own. How must those young men expose themselves to the contempt and ridicule of their feniors, who, having feen little or nothing of the world, are continually shutting out by open mouths, and closed ears, all possibility of instruction, and making vain the principal end of conversation, which is improvement. A filent young man makes generally a wife old one, and never fails of being respected by the best and most prudent men. When therefore you come among strangers, hear every one speak before you deliver your own fentiments; by this means you will judge of the merit and capacities of your company, and avoid exposing yourfelf, as I have known many do, by shooting out hasty and inconsiderate bolts, which they would have been glad to recal, when perhaps a filent genius in company has burst out upon them with fuch observations, as have struck consciousness and sheme into the forward speaker, if he has not been quite destitute of inward reproach.

I have thrown together, as they occurred, a few thoughts, which may loffice for the prefent to flew my care and concern for your welfare. I hope you will conflantly, from time to time, communicate to me whatever you final think worthy of my notice, or in which my advice may be of use to you. For I have no pleature in this life equal to that which the happiness of my relations gives me. And of this you may be affured; for I am, and ever mult be,

Your loving uncle.

LETTER III.

General rules of conversation, &c. From a Clergyman to a young Tradesman.

Dear Henry,

S I had not an opportunity of faying fo much to you as I wished when you were last here; I fend this to inform you of fome things, in your general conversation, which I think would be proper for you to observe and amend; particularly your excessive itch for talking; which discovers itself alike on all occasions. I have always flattered myfelf, that you do not want fenfe; and am willing to hope I have not been deceived: but the dangerous felf-fufficiency of most young men feems violently to have feized you, which, I hope, a little reflexion will remove.

The art of rendering yourfelf agreeable in conversation is worth your ferious study; 'tis an advantage few can boaft, tho' fought after by all; and nothing is fo constant an enemy to success in those who would excel in this art, as the harbouring an opinion of their own proficiency, before they have attained to any tolerable degree of knowledge in what they imagine themselves poffesfed of. Conversation, where it is rightly managed, must be so conducted as to let each member of the company have a share in the pleasure and applause it affords; if you are fix in number, after you have told a flory, or made any remark which gives a general fatiffaction; you must consider it the right of another to call vour attention in his turn; and, unless particularly requested, it betrays a great weakness to follow yourself. No doubt you love to be admired; and have not ethers the same passion? you believe your wit more brilliant than theirs; are you fure that they are not of the fame opinion as to their own? If a man speaks little, you must not from thence, conclude him willing to give up every claim to converfable merit; perhaps he cannot fing; but to be fure he is as defirous of having his peculiar humour, or his dry joke, applauded, as you are to be intreated another fong. If he is no mathematician

merhaps he is versed in religious disputation: if he defpifes plays, he may admire history; tho' he understands not geography he may yet know how to describe the humours of mankind; and the' he pretends not to politics, he may have a turn for some more useful science. When these are considered, if his modesty is great, you cannot oblige him more than by throwing an opportunity in his way to display his capacity on the subject he believes himself most able to handle with advantage : for, in order to support a thorough good humour, a man must be pleased with himself as well as with others. When this is properly taken care of, conversation feldom fails to prove entertaining; and to the neleget of this are owing many of the yawning hours fpent in companies composed of men not incapable of behaving agreeably.

The manner of telling a story is also worth your notice; you have known the pleasure of hearing a long one well told; Mr French has an admirable talent in this way; but then you must observe that half the plea. fure he gives, arifes from his happily avoiding any of the filly digressions, which are the great cause of a story's feeming tedious; you never hear him mingle his relation with, I remember very well it was the same day that fquire Worthy's fon came of age .- I bought my bay nag the very day before, at such a fair, being a Friday, that year; -or, I can scarce think of it without laughing ;-or, but, however, as I was faying :- and a hundred more such dead weights to attention. Nor does heever praise a story before he relates it; a fatal rock to many a good relation, for when a story wants a preparatory recommendation, it ought not to be told, and even when the relation is possible, the generality of auditors are apt to persuade themselves,

The mountain labours, and a mouse is born.

These are loose and general hints, yet by a due improvement of them you will find yourself very fensibly, grow more and more agreeable wherever you converse. An easy and becoming freedom you already have, and by the addition of discretion in your use of them, and complaifance to others, you will probably fucceed in the defire fo predominant in you, of being admired by men of fence and judgment. Which will be no small pleasure to, yours, &c.

LETTER IV.

A young man in business, to a father, desiring leave to address his daughter.

London, September 24. Hope the justness of my intentions will excuse the freedom of these tew lines, whereby I am to acquaint you of the great affection and efteem I have for your daughter. I would not, Sir, offer at any indirect addrefs, that should have the least appearance of inconsiflency with her duty to you and my honourable views to her; chusing, by your influence, if I may approve myfelf to you worthy of that honour, to commend myfelf to her approbation. You are not infentible, Sir, by the credit I have hitherto preferved in the world, of my ability, by God's bleffing, to make her happy; and this the rather emboldens me to request the favour of an evening's conversation with you at your first convenience, when I will more fully explain myfelf, as I carneltly hope, to your fatisfaction, and take my encouragement or discouragement from our own mouth, I am, Sir, mean time, with great respect,

Your most obedient and humble servant.

LETTER V.

From a young lady to her father, acquainting him with a proposal of marriage made her.

Honoured Sir, Canterbury, June 2.

Think it my duty to acquaint you, that a gentleman of this town, by name Mr Truelore, and by bufanefs a linen draper, has made fome overtures to my coufin Teltruth, in the way of courtflip to me. My coufin has brought him once or twice into my company.

which he could not well decline doing, because he has dealings with him, and has an high opinion of him and his circumstances. He has been set up four years, and has very good bufinefs, and lives in credit and fashion. He is about twenty nine years old, and a likely man enough: he feems not to want fense or manners, and is come of a good family. He has broke his mind to me, and boatts how well he can maintain me: but I affure you, Sir, I have given him no encouragement, and told him that I had no thoughts of changing my condition, yet a while; and should never think of it but in obedience to my parents; and I defired him to talk no more on that subject to me. Yet he resolves to persevere, and pretends extraordinary affection and esteem. I would not, Sir, by any means, omit to acquaint you with the beginning of an affair that would be want of duty in me to conceal from you, and shew a guilt and disobedience unworthy of the kind indulgence and affection you have always shewn to. SIR.

Your most dutiful daughter.

My humble duty to my honoured mother, love to my brothers and filters; and refpects to all friends. Coufin Teltruth, and his wife and filter, defire their kind refpects. I cannot fpeak enough of their civility to me.

LETTER VI.

The young gentleman's letter to the father, appriling him of his affection for his daughter.

S. I. R. Canterbory, June 12.

Take the liberty, though personally unknown to you, to declare the great value and affection I have for your worthy daughter, whom I had the honour to fee at my good friend Mr Teltruth's. I should think myself intirely unworthy of her favour, and of your approbation, if I could have a thought of influencing her resolution but in obedience to your pleasure; as a should have a story or pleasure.

on fuch a supposition, offer an injury likewise to that prudence in herfelf, which I flatter myfelf, is not the least of her amiable perfections. If I might have the honour of your countenance, Sir, on this occasion. I would open myfelf and circumstances to you, in that frank and honest manner which should convince you of the fincerity of my affection for your daughter; and at the fame time of the honourableness of my intentions. In the mean while I will in general fay, that I have been fet up in my business, in the linen drapery wav. upwards of four years : that I have a very good trade for the time : that I had 2000 /, to begin with, which I have improved to 2500 /, as I am ready to make appear to your fatisfaction; that I am descended of a creditable family, have done nothing to flain my character, and that my trade is still farther improvable, as I shall, I hope, enlarge my bottom. This, Sir, I thought but honest and fair to acquaint you with, that you might know fomething of a person who sues to you for your countenance, and that of your good lady, in an affair that I hope may prove one day the greatest happiness of my life; as it must be if I can be bleffed with that, and your dear daughter's approbation. In hope of which, and the favour of a line. I take the liberty to subscribe myfelf,

Good Sir,

Your most obedient humble servant.

LETTER VII.

From a country chapman beginning trade, to a city dealer, offering his correspondence.

SIR, Leeds, Oct. 20.

THE time of my apprenticefhip with Mr Trufly of this town, being expired, I am just going to begin for myterial fill with my the my the

pech, as you cannot difoblige Mr Trufty by it, because of the distance I shall be from him; and I shall endeavour to give you equal content with regard to my-payments, &c. Your speedy answer whether or no you are disposed to accept of the offer, will oblige,

Your humble fervant.

LETTER VIII.

From a father to a fon, to diffuade him from the vice of drinking to excefs.

My dear fon, October 3.

T'is with a grief proportioned to my love, which is extreme, that I understand you have of late neglected your studies, and given yourself up to the odious vice of drinking: what shall I say, what shall I do, to engage you to quit this pernicious prastice, before it becomes such a habit, that it will be impossible, or at least very difficult for you to cast it off? Let me require, let me intreat you, to give a suitable attention to what I have to say on this head, which I shall offer rather as a warm friend, than an angry father; and as I address myself to your reason, I will leave it to yourself to judge of the truth of the observation I have to make to you.

In the first place, with respect to health, the greatest gene of this life, it is the most destructive of all vices: vertigoes, asthma's, palies, gouts, appoplexies, cholics, severs, consumptions, dropsies, stone, and hypocondriac discase, are naturally introduced by excessive dinking.

All the rest of the vices together, are not so often punished with sudden death as this one; what fatal accidents, what quarrels, what breaches between friend and

friend, are owing to it!

Then, in the fecond place, How does it deface reafon, deftroy all the tender impulse of nature, make a wife man a fool, and fubject persons of the brightest parts to the contempt of the weakest, and even, in time, extinguish those shining qualities which constitute the difference between a man of sense and a blockhead! For, as a certain eminent author very well observes, fools have generally ffronger nerves, and lefs volatile foirits, than men of fine understanding; that which will rouse the one, will make the other either flupid or frantic, and though it fometimes, while the fit continues. ffrengthens the imagination, yet it always depreffes the judgment: and after the fit is over, both those faculties languishes together, till, in time, it quenches the imaoination, impairs the memory, and drowns the judgment.

Most other vices are compatible, as the same author observes, with several virtues; but drunkenness runs counter to all the duties of life. A great drinker can hardly be either a good husband, a good father, a good fon, a good brother, or a good friend : it lays him open to the worst company, and his company frequently subieds him to lewd women, gaming, quarrels, riots, and often murders. All other vices, even, the preatest of vices, as ambition, unchassity, bigotry, avarice, hypocrify, detelt this unnatural and worfe than bealtly vice; for the beafts themselves, even the uncleanest of them, know nothing of it.

Other vices indeed make men worfe, favs this judicious author; but this alters men from themselves, to that degree, that they differ not more from their prefent companions, than from their former felves. A habitude of it will make the prudent inconfiderate, the ambitious indolent, the active idle, and the industrious flothful; to that their affairs are ruined for want of application, or by being intrusted in the hands of those who turn them wholly to their advantage, and, in the end, to the ruin of those who employ them.

I have written a long letter already: yet have I still more to fay ; which, that I may not tire you, I will leave

to another opportunity.

Your most indulgent father.

LETTER IX.

From an apprentice to his master, begging forgiveness for a very great misdemeanor.

Good Sir.

Am so ashamed of myself for the last occasion I have given you to be angry with me, after my repeated promifes of amendment, that I have not the courage to speak to you. I therefore take this method of begging you to forgive what is past; and let this letter tellify against me, if ever I wilfully or knowingly offend again for the future. You have children of your own. They may possibly offend; the' I hope they never will as I have done, Yet, Sir, would you not wish they might meet with pardon, if they should, rather than reprobation ?- My making or my ruin, I am fenfible, lies in your breaft. If you will not forgive me, fad will be the confequence to me. I doubt. If you do, you may fave a foul, as well as a body, from mifery; and I hope, Sir, you will weigh this with your usual goodness and consideration. What is past I cannot help; but for what is to come, I do promife, if God gives me health and power, that my actions shall testify for me how. much I am.

Good Sir,

Your repentant humble fervant,

LETTER X.

The master's answer.

Robert,

Your letter has affected me so much, that I am willling once more to pass over all you have done,
Surely at last I may depend on these your foleran afferances, and, as I hope, deep contrition? If not, be it as
you say, and let your letter testify against you fay, and
ingrateful baseness; and sor me, in my readiness (which
however shall be the last time) to forgive one that has

been so much used to promise, and so little to perform. But yet I hope for better, because I yet wish you well; being as you use me,

Yours or otherwife.

LETTER XL

From an apprentice, where the master is too remiss in his own affairs.

Honoured Sir and Madam,

TOU defire to know how I go on in my bufinefs. I must needs say, very well in the main, for my mafter leaves every thing, in a manner to me. I wish he did not, for his own fake. For though I hope he will never fuffer on the account of any wilful remiffness or negligence, much less want of fidelity, in me, yet his affairs do not go on fo well as if he was more in them, and less in the tavern. But it becomes not me to reflect upon my mafter, especially as what I may write or fav on this head, will rather expose his failings, than do him fervice : for as they must be his equals that should reprove him, fo all a fervant can observe to others will do more harm than good to him. One thing is at prefent in my own nower, and that is, to double my diligence, that his family fuffer as little as possible by his remiffness. And another, I hope, by God's grace, will be, and that is, to avoid in myfelf, when my time comes, those failings which! fee so blameable in him. And as this will be benefiting properly by the example (for that bee must be worse than a drone, that cannot draw honey from a bitter as well as a fweet flower) fo it will give you the pleafure of knowing, that your good inthructions are not thrown away upon me, and that I am. and ever will be.

Your dutiful fon-

LETTER XII.

To a country correspondent, modefily requesting a balance of accompts between them.

SIR.

Thind myfelf confirained, by a prefent exigence, to beg you to balance the accompt between us. Tho' matters have run into fome length, yet would I not have applied to you, had I known fo well how to answer my prefiling occasions any other way. If it fulls you not to pay the whole, I beg, Sir, you would remit me as much towards it as you can, without prejudice to your own affairs; and it will extremely oblige

Your most humble fervant.

LETTER XIII.

In answer to the preceding.

SIR,

Am very glad I have it in my power to fend you now, directly one hundred pounds, on accompt between us, which I do by our carrier, who will pay you in free cie. I will foon remit you the balance of your whele demand, and am only forry that I gave occasion for this application for what is fo justly your due. When I fend you the reft, which will be in a lew days, if I am not greatly disapointed, I will accompany it with an order, which will begin a new debt; which it hope to be more punctual in dicharging, than I have been in the last. I am very fincerely,

Your faithful friend, And humble fervant-

LETTER XIV.

From a gentleman to a lady, professing an aversion to the tedious forms of courtship.

Dear Madam,

Remember that one of the ancients, in describing a youth in love, says he has neither wisdom enough to speak, nor to hold his tongue. If this be a just defcription, the fincerity of my passion will admit of no difnute: and whenever, in your company, I behave like a fool, forget not that you are answerable for my incapacity. Having made bold to declare this much, I must prefume to fay, that a favourable reception of this will. I am certain, make me more worthy of your notice; but your difdain would be what I believe myfelf incapable ever to furmount. To try by idle fallacies, and airy compliments, to prevail on your judgment, is a folly for any man to attempt who knows you. No, madam, your good fenfe and endowments have raifed you far above the necessity of practiling the mean artifices which prevail upon the less deserving of your fex; you are not to be so lightly deceived; and if you were, give me leave to fay, I should not think you deferving of the trouble that would attend fuch an attempt.

This, I must own, is no fashionable letter from one who, I am fure. loves up to the greatest here of romance: but as I would hope, that the happiness I me for, should be lasting, it is certainly most eligible to take no step to precure: it but what will bear reskion; for I should be happpy to see you mine, when we have both out-lived the talke for every thing that has not virtue and reason to support it. I am, Madam, notwithstand-

ing this unpolish'd address.

Your most respectful admirer,

And obedient fervant.

LETTER XV.

To a friend, who had promifed to lend a fum of money to answer a critical exigence, and drove it off to the last.

Dear Sir,

You were fo kind as to tell me, a fortnight ago,
that you would lend me one hundred pounds on
my bond, to answer a demand that my credit would be
otherwise a fufferer by. And you were pleased to say,
you would have me look no further, and that I should
certainly have it in time. I have looked no further, Sir,
and the day of payment approaching, you cannot imagine how my mind has suffered by being not absolutely
fure of having the money to answer the demand. I hope
Sir, nothing has happen'd to make you alter your mind;
for, at this short notice, I shall not know to whom to
apply to raise it. In the utunost perturbation of mind,
for sear of the worst, my credit being wholly at stake,
I been your answer, which I hope will be to the fairs

Your obliged humble fervant.

LETTER XVI.

The answer, excusing the pain he had given his friend by his remissions.

faction of, Sir,

Dear Sir,
Will attend you this afternoon with the money, which
In had always great pleafure in the thought of fupplying you with; and I am moth heartily vexed with myfeli, for giving you the pain and uneafinefs that muft
have attended a mind To punctual as yours, and in a
cafe fo critically circumflanced. But I hope you'll forgive me, tho' I can hardly forgive myfelf. I am, Sir, as
well on this, as on any other occa ion in my power,

Your fincere friend and fervant.

LETTER XVII.

From a failor to his betrothed miftrefs.

My dear Peggy,
IF you think of me half fo often as I do of you, it will
be every hour, for you are never out of my thoughts;
and, when I am alleep. I conflantly dream of my dear
Peggy, I wear my half bit of gold always at my heart,
tied to a blue ribband round my neck; for true blue,
my dearell hose, is the colour of colours to me. Where,
my dearelf, do you put yours? I hope you are careful
of it: for it would be a bad omen to lofe it.

I hope you hold in the fame mind (bill, my dearest dear; for God will never blefs you, if you break the yows you have made to me. As to your ever faithful Andrew, I would fooner have my heart torn from my brealt, than it should harbour a wilh for any other woman befides my Peggy. O my dear love! you are the joy of my life: my thoughts are all of you: you are with me in all I do, and my hope and my withes are only to be yours. God feen it may be followed.

Our captain talks of failing foon for England; and then, and then, my dear Peggy!— O how I rejoice, how my heart beats with delight, that makes me I cannot tell how, when I think of arriving in England, and

joining hands with my Peggy, as we have hearts before, I hope: I am fure I speak for one.

John Arthure, in the good faip George, Capt. Plowfea, which is returning to England (as I hope we shall foon) promifes to deliver this into your own dear hand; and he will bring you too, fix bottless of citron water, as a token of my love. It is fit for the fines! I adies taste, it is so good, and is what they say ladies drink, when they can get it.

John fays, he will have one fweet kifs of my deareft. Peggy, for his care and pains. So let him my beft love, for I am not of a jealous temper. I have a better opinion of my deareft, than fo. —— But, oh, that I was his place. —One kifs flouid not ferve my turn,

though I hope it may his. Yet if he takes two, I'll forgive him; one for me, and one for himself. For I love John dearly, and fo you may think. Well, what thall I fay more? - Or, rather, what shall I fay next? - For I have an hundred things crouding in upon me, when I write to my dearest, and, alas, one has fo few opportunities! But yet I must leave off; for I have written to the bottom of my paper. Love then to all friends, and dury to both our mothers, concludes

Your lover till death.

Her ANSWER.

OR fo I may call you now we are fure, and fo my mother fave. This is to be mother fays. This is to let you know, that nothing shall prevail upon me to alter my promife made to you. when we parted, with heavy heart's enough, that's true : and yet I had a little incling given me, that Mr Plank's fon the carpenter would be glad to make love to me : but do you think I would fuffer it, no, indeed; for I doubt not your lovalty to me; and do you think I will not be as loyal to you ?- To be fure I will. Thefe failors run fuch chances, faid one that you and I both know. They may teturn, and they may not. Well, I will trust in God for that, who has returned fafe to his friends, their dear Andrew, fo many a time, and often. They will have a mistress in every land they come to. faid they. All are not fuch naughty men, faid I, and I'll trust Andrew Trusty all the world over. For why cannot men be as faithful as women tro'? and for me I am fure no love shall touch my heart but yours.

God fend us a happy meeting! Let who will speak against failors, they are the glory and the fafe-guard of the land: and what would have become of Old England long ago but for them ? I am fure the lazy, goodfor nothing land-lubbers would never have protected us from our cruel foes. So failors are, and ever shall be, effeemed by me, and of all failors, my dear Andrew Trufty. Believe this from,

Your faithful, &c.

P. S. I had this letter writ in readiness to fend you, as I had an opportunity, and the captain's lady undertakes to fend it with hers. That is very kind and condescending: Is it not?

LETTER XIX.

Of congratulation.

SIR,

Onto admire that I am one of the last, that congratulate with you, your good fortune: the joy which I conceived was so extreme, that it could alrow me no fooner the liberty to acquit mysfelf. I know the most of your friends have prevented me, but being their fastisfaction is finall, I do not wonder if their diligence be the greater. As for my part, my idlencis increaseth my merit, since stay and protradion proceeded only from the excess of the gladues of,

Your most humble fervant, Tom Joyful.

LETTER XX.

ANSWER.

SIR,

Since you take parein the good fortune, which has befallen me, you must also participate in the advantage of the new credit which it has brought me into. This I advertife you of, to the end, that you let not any occasion slip, wherein you may procure a proof of my friendship, nor forget this advice which I give you, for believe me, I am impatient to have an opportunity of shewing you how much I am, SIR.

Your friend and fervant,
Timothy Grateful.

.

LETTER XXI.

Of thanks, &c.

Of thanks, &c

I Received the favour of yours with a kind of prefent:
and know not indeed at this time any other way to
finew my gratitude, than by my hearty thanks for the
fame. Every thing you do carries a cherm with it, your
manner of doing it is as agreeable as the thing done.
In finert, Sir, my, heart is full, and would overflow in
your praife, did I not flop, and fubferibe myfelf
Xour moff obliged.

May 13th, ? And most obedient fervant,
Thomas Thankful.

LETTER XXII.

Requiring the payment of money, which ferves for an acquittance.

SIR,

I Find, upon flating the accompt between you and me, that feveral confiderable fums of money are due to me from you; wherefore having occasion for thirty pounds, I define you to fend it me by the bearer hereof (or here name the carrier) and in fo doing you will very much oblige me.

As to the payment thereof, this letter and the bearer's acquirtance, shall be your sufficient security and discharge for so much money. In witness whereof, I have here-

unto fet my hand, the fixth day of June, 1762.

LETTER XXIII.

ANSWER.

SIR

I Send by the bearer (or the carrier) thirty pounds according to your delire, and have taken his receipt for it; but, because you know! send but for finall parcules of goods at a time, therefore I desire you always

for the future, when I fend you money, that you mention in the aequitances the names of the good for which you received the money, or at leaft I would have you to mention what money remains unpaid; for thro' want of fuch certain knowledge, fome poor country tradefmen have found great lols, either by the mafter or their apprentices receiving the money fent, and not mentioning for what goods. Pray take it not ill that I thus write, for I am faithfied of your honelt dealing; but know not the fervants you intruft to receive the money, I fend in finall parcels. I reft

Your friend and chapman,

James Punctual.

LETTER XXIV.

From a fervant in his mafter's absence to one of his country customers.

Mr Thomas Merchant,

SIR

I Received yours, and for answer fay, I am very forry to hear that the goods have not answered your expectation; however, have placed them to the credit of your accompt, and returned others in their slead by Robert Derham the carrier. I know my malter would willingly oblige you in any thing in his power, and as his aithful servant. I have herein done my utmost to give you faisfastion, who am

To MrTho Merchant, Your most humble fervant, clothier in Halifax.

LETTER XXV.

From a youth at school in Durbam to his parents in London.

Durham, January 12. 1762.

Honoured father and mother,

I Received your kind letter of the 14th of November-path, and also the feveral things therein mentioned, by the Newedelle waggon, for which 4 return you my most humble and hearty thanks, they coming very fea-fonably for the relief of my occasions.— Degin to make pretty good improvement in my learning now (tho' at first, it feemed a little itkshone and hard) and I hope to gain the point at last for which you fent me hither. Pray accept of my most humble duty to yourfelves, and give my kind love to my brothers and siliers, and to my old play fellows and neighbours; this being all at prefent iron,

Honoured parents, your dutiful fon, Peter Wife,

LETTER XXVI.

From an apprentice to his friends.

Honoured father and mother,

D' thefe I let you know, that by your care and conon, and could not but in duty return you my hearty
thanks in a grateful acknowledgment of your love and
tender care of me: I will endeavour to go through
my bufines hearfully; and having begun well, I hope
I shall perfevere to do so to the end, that I may be a
consfort to you hereafter, and in some mediare make a
return of your love and kindmels to me, who am
Your dutiful, obecient low

Your dutiful, obedient fon,
And most humble servant,
Jeremiah Careful,

LETTER XXVII.

Of recommendation.

or recommendation.

THE bearer hereof, James Roberts, I fend you, as perience of his conduct and fidelity give me a certain kind of confidence in recommending him to you; but you know me, Sir, and Lbelieve you cannot in the least think that I would recommend any one to you, if I had she least umbrage of sufficiency of the probity. I am, Sir,

Your real friend and humble fervant,

LETTER XXVIII.

To a country chapman.

Mr James Tradewell, S. I R,

YOU and I have formerly had trading together, and it is not my fault that we do not continue fo to do; for affure yourfelf, I have a great value and refpect for you, and on that account none thall be more ready to oblige you in what I may; and pray let us once more re-affume our dealing together, and you fhall find, that for any goods you have occasion for in my way, none shall use you more kindly than,

Your real friend, and humble servant, George Punctual.

LETTER XXIX.

By way of petition.

Honoured Sir,

Am uncertain whether my late misfortunes have come
to your knowledge; however, I most humbly pre-

fume on your good nature, being affured by fundry examples of your compassion, that you will think of, and take pity on the diffressed : therefore as an object truly deferving compassion, I most humbly implore and petition you to consider the many losses and disappointments that I have met with in my wayward and unlucky fortune, which have reduced me to fuch necessitous circumstances, that I cannot possibly proceed in my affairs: you was pleafed once to file me your friend, and fo I was indeed; and fo I would certainly do now, and shew it by a fignal proof of kindness, if our circumstances were changed, by standing between you and misfortune, and fcreening you from the malevolent and inauspicious influences of cross-grained stars. I doubt not, Sir, but your generofity and goodness is as great; and I hope with all humility, you will be pleafed to interpose your good offices, &c. between unlucky fortune, and.

SIR,

Your very humble fervant,

George Shipwreck.

LETTER XXX.

To a friend to defire him to endeavour to end a difference between two of their friends,

Loving cousin,

A FTER my love to you, this is to let you know, that two of your friends D. N. and J. F. are going to law upon a trifling occasion. I pray come over and see to reconcile them, or fend your advice how I may labour to do it, and I shall be very much obliged to you, I remain

Your affectionate kinfman and humble fervant,

LETTER XXXI

The answer, with advice.

Dear friend.

71TH my unfeigned love to you, I received your letter, and it grieves me to hear that our friends should be for going to law, and not compelled to it : for then much money is fpent upon lawyers, to end their differences by jury-men, when two friends may do it hetter

But if one of the parties is for going to law, and the other not, then he that is against going to law is the most christian, and is not to be blamed, tho' he use the law of the nation to defend himfelf, neither indeed, can be avoid it, if his adverfary feeks revenge, and fo forces him to foend his money in his defence.

But you defiring my advice about reconciling those two friends, they having not yet fee'd lawyers, perfuade the man that is for going to law, that two friends chosen by both parties may end their differences, or one person only.

And when they have nominated two to end it, then perfuade the two parties to put into the hands of those arbitrators, 5 /. or more a-piece, according to the value of the trespais. This agreed on next,

Let the parties fron and feal general releases to each other; then the arbitrators must dispose of the money as they fee good, to the party, that has received the

wrong, &c.

Thus differences among friends may be composed at a much cheaper and better rate than by trial at the af-Gree.

But yet 'tis best, when contending parties agree by themselves, as Christ commands, Mat. xiii. 15. and

forgive trespasses, Mat. iv. 12.

Besides this, having general releases, it euts off all former differences, and faves from divers expences, and from bonds of arbitration and awards, which, tho' they cost money often prove of no effect.

Would to God the advice above, of reconciling mea

at difference, would take effect in general, then would

I remain your friend,

Jerem, Peaceable.

LETTER XXXII.

From a gentleman to a gentlewoman, to beg pardon for an offence.

Madam. I'IS in vain to contend with my judge, and therefore, tho' I know my fault has been aggravated beyond what it could justly bear, yet I will rather submit myfelf to your fentence than go about to extenuate my crime : I am guilty enough that I have offended you, tho' I never defigned it; and when you have done yourfelf justice, by inflicting upon me what you think I merit for my offence, then I will plead my innocency, and let you know I always was fo far from faying any thing that might reflect upon your fame, that in my opinion, not innocence itself is more unspotted, nor can unfulried fnow appear more white : 'tis true, I am guilty to give you ground to think I have offended; but my offence is my misfortune rather than my fault. But. Madam, what if I appeal from your feverer justice to your mercy? I know you are not inexorable, nor did you fuck the breafts of wolves and tygers : and fince there's fo much sweetness in your eyes, there needs must be some pity in your heart, at least so far as to forgive a poor repenting criminal. And fince you are fuch a

bright idea of the author of all goodness, you cannot, but, like him, delight in shewing mercy. I shall hence-forth eachea our to be like Casar's wife, not only free from eqilt, but from soften and further, shall, to ex-

Your truly forrowful,

piate my offence, remain

And much afflicted humble fervant,

Roger Begpardon.

LETTER XXXIII.

ANSWER.

SIR,

Received your letter, and must let you know, that whatfoever reflects upon my fame (which is far dearer to me than my life) tho' at the most remote diflance, is what I cannot but think a fault, and therefore know not how you can be innocent; and, indeed, to plead your innocence, is to accuse me of injustice, in charging you with a crime; but, from what you write. I am inclined to believe, that in what you faid, you defigned no injury to me; and that it was a crime of inadvertence rather than of malice. And for that reafon upon your profession of repentance, I freely pardon you : but charity itself does not injoin me to hug the man I pardon in my bosom: you must not expect therefore to be admitted to the former freedoms you enjoy'd, fince you have made fo ill an use of 'em, till you have given fome more substantial proofs of the fincerity of your repentance. And the' I pardon this your first offence, yet if you should relapse into your former follies, you must expect a much feverer treatment : for then I shall no more esteem myself, as I now do,

Your reconciled friend to ferve you, Sarah Foreivewell.

LETTER XXXIV.

From a gentleman to his miltrefs, who feeing no hopes of forcess, refrectfully withdraws his fuit.

Madam.

Make no doubt but this will be the welcomed letter that you ever received from me; for it comes to affure you, that it is the last trouble you will ever have from me. Nor should I have so long with-held from you this fatisfaction, had not the hope your brother gave me, that in time I might meet with a happier face, made me willing to try every way to obtain your fa-

your. But I fee all the hopes given me by his kind confideration for me, and those that my own presumption have made me entertain, are in vain: and I will therefore rid you of so troublesome an importuner, having nothing to ofter now but my ardent wilnes for your happiness, and these, Madam, I will pursue you with to my life's latest date.

May you, whenever you shall change your condition, meet with a heart as pallionately, and as sincerely devoted to you as mine I and may you be happy sor many, very many years, in the man you can honour with your love; for, give me leave to say, Madam, that in this my end will be in part answered, because it was most sincerely your happiness I had in view, as well as my own, when I presumptuously hoped, by contributing to the one, to secure the other. I am, Madam, with the highest veneration,

Your most obedient humble servant.

LETTER XXXV.

From a father to a daughter in fervice, on hearing of her master's attempting her virtue.

My dear daughter,

Tuderfland, with great grief of heart, that your mafter has made fome attempts on your virue, and yet that you flay with him. God grant that you have not already yielded to his bale delires! For when once a person has fo far forgotten what belongs to himfelf, or his character, as to make fuch an attempt, the very continuance with him, and in his power, and under the fame woof, is an encouragement for him to profecute his defigns. And if he carries it better, and more civil at prefent, it is only the more certainly to undo you when he attacks you next. Consider, my dear child, your reputation is all you have to trust to. And if you have not already, which God forbid! yielded to him, leave it mut to the hazard of another tempatalon, but come a

way directly (as you ought to have done on your own motion) at the command of

Your grieved and indulgent father.

LETTER XXXVI.

The daughter's answer.

Honoured Sir.

Received your letter yellerday, and am forry I flayed a moment in my matter's houfe after his vile attempt. But he was fo full of his promifes of never offering the like again, that I hoped I might believe him; nor have I yet feen any thing to the contrary: but am fo much convinced, that I ought to have done as you flay, that I have this day left the boufe, and hope to be with you foon after you will have received this letter. I am,

Your dutiful daughter-





PRECEDENTS in Law and Business, that all young men ought to know and be acquainted with.

Superfcriptions for Letters.

O the king, or, To the king's most excellent maiesty.

To the queen, or, To the queen's most excellent ma-

To the prince, or, To his royal highness. To the

princess, or, To her royal highness.

And in cafe of the lords spiritual, viz. To his grace the lord archbishop of Canterbury; To the right reverend father in God, &c. The same to the archbishop of York. If to the other bishops, To the right reverend father in God, Archbadd lord bishop of, &c. And to the inferior clergy, To the reverend doctor, &c. To the reverend Mr. &c.

To write to temporal lords, viz.

To his grace the duke of

To the right honourable the marquis of

To the right honourable the earl of-

All the fons of the nobility, tho' not the immediate heirs, are to be dignified with the title of honourable, as their due by birth-right. And to a knight and baronet by virtue of his patent, the title of honourable and hight worthipful is given. As likewife the former to a knight, and worthipful to an efquire.

Every privy counfellor, though not a nobleman is filled-right honourable: all ambaffadors have the fille of excellency, as likeways hath the lord licetenant of Ireland, and the captain general of his majefly's forces when in being; nor has the mayor of London, during his mayoralty, a lefs title than right honourable; and the fheriffs, during their office are fliled right worshipful; nor does any thing less than the title of esquire extend to the mayors of any corporation during their office.

Directions for the beginning of Letters.

To the king, Sir, or, May it please your majesty.
To the queen, Madam, or, May it please your majesty.

To the prince, Sir, or, May it please your royal

To a duke, My lord, or, May it please your grace.
To a duchess, Madam, or, May it please your grace.

To a marquis, My lord, or, May it please your lord-

To a marchioness, Madam, or, May it please your

ladyship.

To an earl, viscount, or baron, Right honourable, or, May it please your lordship. In viscount or viscountess, found not the fin the first syllable.

To a countefs, viscountess, or baroness, Madam, or Right honourable, or, May it please your ladyship.

To a knight, Sir, or, Right worshipful; and to his lady, Madam, or, May it please your ladyship.

To a mayor, justice of peace, esquire, &c. Sir, or, May it please your worthip.

At subscribing your name end with the same title you becan with. As, My lord, Your lordships, &c.

Convectory sak marks med to convectory sak marks med convectors sak marks med to convector sak med to convector sak med to convector sak marks med to convector sak med

Of Wills and Testaments.

A Will, according to the common acceptation, is the declaration of a perfor's mind or intent, in relation to what he would have done after his death. The common law calls that a will, whereby lands and tenements are deviled; but when it concerns only chattels, viz. moreables or what is not inheritable, it is called a teffament; where lands are given by will it is teremed at

devise; and where goods and chattles, commonly termed a personal estate, are bequeathed, it is called a legacy.

Devises of lands, &c. must be in writing, signed by the

Devices of lands, Gr. must be in writing, lighted by the devilor or perion giving, generally called the tellator, or fome perion by his express direction, in the presence of three credible winteffes. It a perional estate of above the value of thirty pounds be bequeathed by word of mouth, which the law calls a nuncupative will, it must be likewise done in the presence of three witnesses.

FORM of a WILL.

TN the name of God, Amen. I, A. B. of, &c. being thro' the abundant mercy and goodness of God, tho' weak in body, yet of a found and perfect understanding and memory, do constitute this my last will and testament, and defire it to be received by all as fuch : imprimis, I most humbly bequeath my foul to God, my Maker, befeeching his most gracious acceptance of it. thro' the all-fufficient merits and mediation of my most compationate Redeemer, Jesus Christ, who gave himself to be an attonement for my fins, and is able to fave, to the uttermost, all that come unto God by him, seeing he ever liveth to make intercession for them, and who, I trust, will not reject me, a returning penitent sinner, when I come to him for mercy; in this hope and confidence. I render up my foul with comfort, humbly befeeching the most blessed and glorious Trinity, one God most holy, most merciful and gracious, to prepare me for the time of my diffolution, and then to take me to himfelf into that peace and reft, and incomparable felicity, which he has prepared for those that love and fear his holy name, Amen, bleffed be God. Imprimis, I give my body to the earth, from whence it was taken, in full affurance of its refurrection from thence as the last day : as for my burial, I defire it may be decent, without pomp, or fate, at the discretion of my dear wife, and my executors hereafter named, who, I doubt not, will manage it with all requifite prudence. As to my worldly effate, f will and politively order, That all my debts be paid. Item, I give to my dear and loving wife, for term of life, this house wherein I now dwell, with all the furniture,

and the lands and tenements that ly about it : and after her death, to my only fon G, and his heirs and affigue for ever; to whom I leave also, from the time of my death, my other two effates fituate in the parish of T. he paying to each of his fifters, D. and F. 5000 /. And if he die before them, and without iffue, then his land (all but the value of 5000 /. which I freely impower him to dispose of as he shall think fit) shall descend, and belong equally to those my two daughters. My poor debtors, who owe me fome fmall matters, which, becausethey are in low condition, and not well able to pay them, I freely remit them all, forgiving fuch my debtors, as I defire God should forgive my debts for Christ's fake. I oive 60 1. to be distributed according to the discretion of my executors, among fach-of my neighbours of this parific, as they shall apprehend most to want such affistance, but who do not at prefent receive alms, por have any allowance from the parish. I give 30 /. towards the good work for teaching poor children to read, and to fay their catechifm, in charity schools. The small remainder of my effate I give to my very good friends and dear and kind relations, G. R. and L. O. to be divided equally between them : and do conflitute them executors of this my last will and testament, and trustees for my wife and children. In witness whereof, I have hereunto fet my hand and feal, the 3d day of June, in the year of our Lord, 1762.

Witness, T. B. R. T. R. B. A. B. (L. S.) here I take off my feal, and do declare this to be my last will and testament.

Another WILL

I've the name of God, Amen. I. A. M. of, &c. being in perfect health (praifet be God) do make this my last will and restament as followeth. **Lopprimis*, I give to my daughter L. M. 20 pounds of, &c. **Leon*, I give to my daughter C. M. 30 pounds of like lawled money, and the box in the room where I ly, marked (P. Q.) and all the linen therein, with some other goods, and the rest and residue of my goods and chattles, and perfond estate, after payment of in my debts, legacies, and

funeral expences; and unto my fon S. Mi whom: I make fole executors of this my last will and testlaments, give, demife, and bequeath to him and his heirs, all, and every my messinges, lands, tenements, and hereditaments whatsoever and wheresoever, which I also charge with the payment of my said legacies. In winters whereos I have hereunto fet my hand and feal, the 23d day of I acc, and in the year of our Lord, 1762.

Sealed, published, and declared by the above named A. M. for and as his last will and testament, in the presence of us, A. B. C. D. E. F.

Observations concerning wills and testaments.

TFHE party who figns and feals a will, is to do it in the prefence of three witneffes, who are to fet their hands to it (not under three) and it is not much matter whether the witneffes heat the will read or no, fo as they hear the party lay he acknowledgeth that writing to be his will to which he fet his hand and feal; for if they did hear it read, it cannot be fuppofed that they can remember the contents thereof. A man above fourteen years of age may make a will of his goods, and a woman above twelve, but neither can will their lands until twenty one years.

If a man dies without a will, and leaves both freelands and goods, his wife will have the third part of the profits of the land, during her life, and the third part of the goods for ever; and the next of kin to the hofband the other two third parts. But bethat makes a will, and leaves his wife a certain fum to be paid her yearly, during her life, by his executor, should allo give her fome of his moveable goods.

of his moveane goods.

If a man dies without a will figned, and fealed, leaving many children, the cldeft ion claims all the land; but, if he leaves daughters only, they will be co-heirs to all free-land.

Copy hold land is not given by will, but paffed by furtender in court.

To will land to E. F. for ever; or to G. H. and his assigns this is but for life; but I give and demise unto E. F. his heirs and assigns for ever, fo G. H. may fell it.

The word executor, is the name given to him that is to fee the will performed; but if it be a woman, she is

called in the will executrix.

Set your house in order while you are in health.
For a (will) testament is of force after men are dead,

Heb ix. 17. but not before.

For if a man hath fealed his will and delivered it to a friend to keep, he may make another, which makes the former will void.

The FORM of a LETTER of ATTORNEY, to execute a particular business,

7 NOW all men by these presents, that I, A B, of G. in the county of D, yeoman, for divers good causes and confiderations, me hereunto moving, have made, ordained, constituted, and appointed, and by these prefents, do make, ordain, constitute, and appoint my trufty friend I K, of M, gent, my true and lawful attorney, for me, in my name, and to my use, to alk demand, recover and receive of, and from B C, of, &c. the fum of, ere, giving, and by thise prefents, granting to my faid attorney, my fole and full power, and authority, to take, purfue, and follow fuch legal courses for the recovery, receiving, and obtaining of the same, as I myself might or could do, were I perfonally prefent; and upon the receipt of the same, acquittances, or other sufficient difcharges for me, and in my name, to make, fign, feal and deliver : as also one or more attorney or attorneys under him to substitute and appoint, and again at his pleasure to revoke; and farther to do, perform and finish for me, and in my name, all and fingular thing or things, which shall or may be necessary, touching and concerning the premifes, as fully, thoroughly, and entirely, as I the faid A B, in my own perfon might, or could do, in or about the same : ratifying, allowing, and confirming whatfoever my faid attorney shall lawfully do, or cause to be done, in and about the execution of the premifes,

by wittue of these presents. In witness whereof, I have rereunto set my hand and seal, the 12th day of Septemper, in the 2d year of the reign of our sovereign lord George III. by the grace of God, king of Great Britain, &c. and in the year of our Lord 1762.

Revocation of a Letter of Attorney.

Indenture for an Apprentice.

THIS indenture witneffeth, that - fon of , &c. doth put himself apprentice tohoemaker, to learn his art or mystery, and with him after the manner of an apprentice to ferve, from the day of the date hereof for and during the term of feven years next enfuing; during all which term, the faid apprentice, his faid mafter faithfully shall ferve, his fecrets keep. and all his lawful commands every where gladly do: he shall do no damage to his master, nor see it to be done by others, without letting or giving notice thereof to his faid mafter : he shall not waste his master's goods, nor lend them unlawfully to any. He shall not commit fornication, nor contract matrimony during the faid term; he shall not play at cards, dice or any other unlawful game, whereby his mafter may be damaged, with his own goods, nor the goods of others; he shall not abfent himfelf day on night from his faid mafter's fervice unlawfully: nor haunt alerhoufes, taverns, or playhoufes; but in all things behave himfelf as a faithful apprentice, in the trade or myftery he now followeth; and the faid mafter fhall precure and provide for him fufficient meat, drivk, apparel, lodging, wathing and all other necessaries until the faith after them. And for the true performance of all and every the faid convenants and agreements, either of the faid parties bindeth himfelf unto the other firmly by these presents. In witness whereof, they have interchangeably set their hands and calls hereunto, this twentieth day of September, in the second year of the reign of our fovereign lord George III. king of Great Britain, France and Ireland, &c., and in the year of our Lord. 1762.

Letter of Attorney from a Seaman.

NO W all men by these presents, That I, mariner, now belonging to his majesty's ship the Ann, for divers good causes and confiderations me here. unto moving, have, and by thefe prefents do make, ordain, constitute and appoint my trusty friend _____, citizen and baker of Briffol, my true and lawful attorney for me, and in my name, and for my use, to ask, demand, and receive of and from the right honourable the treasurer, or pay master of his majesty's navy, and commissioners for prize-money, and whom else it may concern: as well all fuch wages, and pay, bounty money, prize money, and all other fum and fums of money whatfoever, as now are, and which hereafter shall or may be due or payable unto me : also all such peosions, falaries, fmart money, and all other monies and things whatfoever, which now, or at any time hereafter is, or shall be due to me for my service, or otherways in any of his majesty's ship or ships, frigates or vessels : giving and hereby granting unto my faid attorney full and whole. power to take, purfue, and follow fuch legal ways and courses for the recovery, obtaining and discharging the faid fum and fums of money, or any of them, as I myfelf might, or could do, were I personally present. And I do hereby ratify, allow, and confirm all and whatfoever my faid attorney shall lawfully do, or cause to be lone, in and about the execution of the premises, by irtue of these presents. In witness, &c.

A BOND.

NO W all men by these presents, That I (R obert solve) and the sount of Durham, merchand) am ledd, and sirmly bound unto (James Syms of Doncaster), in the country of York, Esq.; in the fam of (Two hun-ledd) pounds of good and lawful money of Great Briant, to be paid to the faid (James Syms) his heirs, executors, administrators, or alsigns: tro which payment, well and truly to be made. I bind myself, my heirs, executors, administrators, or alsigns, sirmly by these presents. Sealed with my feal. Dated the (first day of une) in the 2d year of the reign of our forereign lord George the third) by the grace of God, king of Great sirtian, France and Ireland, defender of the faith, and the year of our Lord God (One thousand seven hun-lived and sixty two.)

The CONDITION.

THE condition of this obligation is fuch, that if the above bounder (Kobert Scott) his heirs, executors or administrators, do well and truly pay, or cause o be paid, unto the above mentioned (James Syms) his executors, administrators, or aligns, the full sum of one undred ponuds) with lawful interest for the same, of ood and lawful money of Great Britain, on the (first lay of January uext) ensuing the date hereof; then this shighting to be void, or else to remain in still force.

Sealed and delivered (being

first legally stamped) in Robert Scott.

prefence of F. G. H. I.

When a bond is given in confideration of the vaae received, the bond is always to be made for double he value in the condition.

What is to be varied, and made agreeable to the cirumstances before you, is in those words inserted beween (). A Condition to stand to the Award of Arbitrators.

THE condition of this obligation is fuch, that if the above bounden (James Sly of Newcastle, merchant) his heirs, executors and administrators, and every of them, do and shall in all things, well and truly stand to, obey, abide by, perform, fulfil, and keep the award, order, arbitrament, final end and determination of (Andrew Mills and James Mills, of Briftol, merchants) arbitrators indifferently named, elected, and chosen, as well on the part and behalf of the above bounden (Tames Slv) as of the above named (Tames Syms) to arbitrate, award, order, jugde, and determine of and concorning all manner of actions, causes, and causes of actions, fuits, bills, bonds, specialities, judgments, executions, extents, accompts, debts, dues, fum and fums of money, controversies, trespasses, damages and demands, whatfoever, at any time or times heretofore had, made, moved, brought, committed, fued, profecuted done, fuffered, committed, or depending by or between the faid parties, fo as the award be made, and given up in writing, under their hands and feals ready to be delive. red to the faid parties on or before the (

next enfuing the date above mentioned:) but if the faid arbitrators do not make fuch an award, of and concerning the premifes, by the time aforefaid; that then if the faid (James Sly) his heirs, executors, and administrators, for his and their parts and behalf, do in all things well and truly stand to, obey, abide perform, fulfil, and keep the award, order, arbitrament, umpirage, final end and determination of (John Jack, of Lincoln, Efq ;) umpire indifferently chosen between the two parties, to end the faid matter and differences, fo as the faid umpire do make his award and umpirage of, and concerning the premifes, and deliver the fame in writing under his hand and feal, to the faid parties, on or day of) next enfuing the date before the (above faid, then this obligation to be void, or elfe to re-

main in full force.

Sealed and delivered (being legally stamped) in presence of, &c.

James Sly, (L. S.)

Note, Both the parties are in this case to be metually bound, mutatir, mutandir; and if there be no umpire admitted of, the latter part of the condition, beginning [But if the faid arbitrators] is to be omitted.

The Form of an Umpirage of Award.

all people, to whom this prefent writing shall come ; I (John Jack of Lincoln, Efq;) umpire, indifferently chosen between (James Slight, and John Fox of London, merchants) fend greeting; Now know ve. that I the faid (John Jack) having deliberately heard. confidered, and understood the griefs, allegations, and proofs of both the faid parties, and being willing, as much as in me lieth, to fet the faid parties at unity and good accord, do by these presents, arbitrate, award, order, deem, decree and judge, that the faid (James Slight) his executors, administrators, or assigns, do, and shall well and truly pay, or cause to be paid unto the faid (John Fox) his executors, administrators, or assigns, the fum of () of lawful money of Great Britain, on the (day of) next enfuing the date of these presents; and that upon payment thereof, the faid (James Slight and John Fox,) shall, at their own proper costs and charges, feal, subscribe, and as their feveral acts and deeds, deliver each to the other, a general release in writing, of all matters, actions, suits, causes of actions, bonds, bills, covenants, controversies, and demands whatfoever, from the beginning of the world to the (fixteenth day of July last past) and in the (2) year of our lovereign lord (George III.) king of Great Britain, Go. In witness whereof I have hereunto fet my hand and feal, the (25th day of June 1762). Sealed and delivered (be-

ing duly (tamped) in

John Jack. [L. S.]

A Letter of Licence to a Debtor.

O all people, to whom this present writing shall come; we whose names are here under subscribed, and seals affixed, creditors of [D. F. of Bristol, mer-

chant I fend greeting. Whereas the faid ID. F. I on the day of the date of these presents, is indebted unto us feverally, in divers confiderable fums of money, which at present he is not able to satisfy unto us, without refpite, and time to be given unto him for the payment thereof: Know ve therefore. That we the faid creditors. for divers good causes and considerations, us thereunto moving, have given and granted, and by thefe prefents. do give and grant unto the faid D. F.] our fure and fafe conduct and free licence, that the faid [D. F.] shall, and may fafely come and go, and refort unto us, and every one of us his faid creditors, to compound and take order with us, and every one of us for all and every of our faid debts, and to go about any other business to any other person or persons whatsoever, without any trouble, fuit, arrest, attachment, or other molestation to be offered or done to him, the faid [D, F.] his wares, goods, monies, or other merchandizes whatfoever, by us, or any of us, or by the heirs, executors, administrators, partners, or assigns of us, or any of us, or by our, or any of our means or procurement, to be fought or procured to be done, from the day of the date hereof, unto the full end and term of [one whole year] next enfuing. And we the faid creditors, whose names are here underwritten, do hereby covenant and grant, and every one of us for his own part, his executors and administrators convenanteth and granteth, to and with the faid [D. F.] that if any trouble, wrong, damage, or injury shall be done unto him the faid [D. F.] either in his body, goods, or chattles, or any of them, within the faid term of [one year] next coming after the date hereof, by us, or any of us, his faid creditors, or by any other person or persons, by or through the procurement. confent, or knowledge of us, or any of us, contrary to the true intent and meaning of this our present writing of fafe conduct, that then the faid [D. F.] by virtue of thefe prefents, shall be discharged and acquitted for ever, towards and against him and them, of us, his and our heirs, executors, administrators, partners, or assigns, and every one of them, by whom, and by whose means he shall be arrested, troubled and attached, or damnified. of all magner of actions, fuits, quarrels, debts, and demands, either in law or in equity, from the beginning of the world, to the day of the date hereof; in witness whereof, we have hereunto fet our hands and feals the fourth day of Julgi Anno Domini 1762.

Sealed and delivered (being first duly stamped):

in presence of, &c.

E. F. [L. S.]

ABILL of SALE.

NOW all persons whom it may concern. That I moreland, weaver | for and in confideration of the fum of Fone hundred pounds] of lawful money of Great Britain, to me in hand paid, by [Daniel Dike, of London, Efq ;] the receipt whereof I do hereby acknowledge, have bargained, fold, and delivered, and by these presents, according to the due form of law, do bargain, fell, and deliver unto the faid [Danie! Dike] forty pieces of Kendal cotton, one handred pairs mens, hofe, fifty womens do, fifteen boys do, fealed up with my feal. To have and to hold the faid bargained premifes, unto the faid Daniel Dike his executors, administrators, and affigns for ever, And I the faid [John Trader] for mylelf, my executors and administrators the said bargained premises unto the faid [Daniel Dike] his executors, administrators and affigus, against all persons, shall and will warrant, and or ever defend, by these premises: It the bargained premises be redeemable, by a limited time, a provito of this nature is added. Provided nevertheless, that if I the faid [John Trader] my executors, administrators and affigns, or any of us, do and shall well and truly pay, or canfe to be paid unto the faid [Daniel Dike] his executors, administrators, or assigns, the som of ione hundred and three pounds] as principal and interest, lawful money of Great Britain, on the Sthirtieth of October, next enfuing the date hereof] for redemption of the bargainad premifes; then this present bill of sale shall be void, and of no effect : but if default be made in the payment of the faid | one hundred and three pounds | in part or in the whole, contrary to the manner and form aforeaid, that then it shall remain and be in full force and virtue: in witness whereof, I have hereunto set my hand and seal, the [twenty sixth day of June] in the year of our Lord [1762]
Sealed and delivered, &c. John Trader, [L. S.]

A general Releafe.

NOW all men by these presents, That I, [Thomas Stivens of London, grocer] have remissed, released, and for ever quitted claim, and by these presents, do for me, my heirs, executors and administrators, remife, release, and for ever quit claim, unto [Jeremiah Bucks, citizen and mercer of London his heirs, executors and administrators, all and all manner of actions, causes and causes of actions, suits, bills, bonds, writings obligatory, debts, dues, duties, accompts, fum and fums of money, judgments, executions, extents, quarrels, controversies, trespasses, damages and demands whatfoever, both in law and equity, or otherways howfoever, which against the faid [Jeremiah Bucks] I ever had, now have, and which I, my heirs, executors and administrators, shall or may have, claim, challenge or demand, for or by reason or means of any matter, cause or thing, from the beginning of the world, to the day of the date of these presents: in witness whereof, I have hereunto fet my hand and feal, the [twelfth day of fuly] and in the year of our Lord [1762.] Sioned, fealed and delivered [be-

ing first legally stamped] de. Tho. Stivens. [L. S.]

Of Wives, Children and Servants.

THE woman, at her marriage, becomes wholly the man's, together with all her moveable goods, and if goods be given to a married woman, they immediately become her husband's: the cannot let, fett, fell, give away, or alienate any thing without her hubband's confent, not her very apparel, which at her hubband's decease goes to the executor, or administrator of her hufband (excepting her necessary apparel) which with the confent of her husband, the may give by will, not otherways by our English laws.

The wife, after her husband's death, having no jointure fettled before marriage, may challenge the third part of his yearly rents of free-lands, for her life; and also the thirds of the rents of fitof her free-lands as he fold in his life time, if she did not constent to a sine; but she can claim no thirds of such lands as her busband buys when he has fold them again, and dieth, if he pits anowher person's name in the deed besides himself, when he bought them, But if her busband dieth without a will in writing, leaving no child, she will claim the thirds, as above, and a third part of the goods for ever, and the other two thirds go to the next of his kindred.

But if the be the wise of a freeman of the eige of Lon-

don (he dying without a will, leaving no child, as before) (he will challenge by law, three parts of four of her hufband's goods and chattles, and one third of the profits of his free-lands for life, the goods for ever. By a late at 0 f parliament perfons fince made free are not

bound by this law.

The hulband must answer to his wife's faults; if the many another by her tongue, or by trespas, he must make satisfaction; and pay the debts that she causeth, except he did before give notice; that they should not trust her. This is disputable.

A woman cannot hope to have the thirds of her hufband's land, which he mortgaged before marriage, till the money's paid, and the mortgage be cancelled.

A man and wife are joint purchasers of land, to them and their heirs and the survivors, and heirs; and if the husband dies, the wife may fell the land without the consent of their children.

A woman that kills her husband is to be brunt alive.

If a wife brings forth a child, begotten by another before marriage, but born after marriage, the husband would own the child as heir at law.

A wife cannot be a witness for, or against her huf-

band, they two being but one in law.

If a wife brings forth a child during her husband's long absence, though it be some years, yet if he lived all the time within this island, he must father that child; and if that child be her first-born son, he shall inherit the husband's estate, if intailed, or left without a will. This has been lately tried, and decided otherwise.

A woman that doth not hear of her husband for feven

years together, may marry another man.

If a woman have no fons, but daughters, the lands, as well as goods, are equally divided among the daughters, who are co-heirs.

Man and wife are so fast joined by our law, that they may not be wholly parted by our law, by any agreement between themselves; but only by the sentence of a proper judge, for adultery, etc.

Of Children, Sons and Daughters.

A Father may give all his estate (not intailed) to any one child, the consideration of which keeps some

children in awe.

A fon at the age of 14, may chuse his goardian, be an executor, may confent to marriage (if not an apprentice) may, by will, give his goods and chattles, and become bound in bonds, or covenants for necessaries, food, raiment, schooling, &c.

At the age of 15, he may be fworn to his allegiance

to the king.

At 21, he is faid to be of full age, may fell land, (which in other countries is not till 25) when the heat of youth is fomewhat abated, and they begin to be flayed in mind, as well as in growth.

A daughter at feven years may confent to marry, tho? the may afterwards diffent; at nine the may confent to

a jointure.

At 12, the is able to confirm her former confent to marriage, and if at that age the diffent not, the is bound; the may at that age make a will of her goods, and become bound for necessaries, &c.

At 13 she may receive her lands into her own hands, that are given, or fall to her. At 21 she may lett, fell,

or will hear lands.

The eldest fon inherits all his father's lands (if the father died without a will) and to the younger children are disposed goods and chattles, and commonly the cledest fon's wife's portion.

If a man marry a wife having free land, and the dieth, leaving a child that is heard to cry, tho' it dieth prefently, the man thall have the lands for his life. This is called, The courtefy of England.

Of fervants.

Rdinary fervants are hired, commonly for a year whereby they become inhabitants of that parifil) at the end whereof they may be free (giving 3 months warning before) and may place themselves with other mafters only it is accounted dilcourteous and unfriendly, to take another man's fervant, before leave given by his mafter; and indiffered to hire a fervant without a cuertificate of his diligence and riathfoliofs, in the fermice of his latt mafter, or formewhat to this effect.

Memorandum, That I, G. D. do certify, that J. B. whe bearer hereof, hath been an honelt and faithful ferwant unto me. Witness my hand, the 4th of May, 1762.

Forms of Receipts, Notes and Bills, &c. neceffary to be understood in order to forming the man of business.

Various forms of acquittances, when an apprentice, or fervant receives money for the use of his master, or a employer, &c.

Eccived the 27th of July, 1762. of Mr Thomas Adams, Nine pounds twelve shillings, for my maler David Stone, on accompt,

Per James Thompson.

8

Received the 6th of September, 1762. of Henry Holland, Fifty eight pounds ten fhillings and four pence, ia full payment for my mafter Andrew Jones, Per Matthew Burns.

L. 58 10 4

Received the 24th of August, 1759. of Mr James Johnson and company, Two hundred pounds, for Mr George Bedford and partners.

L. 200 -

Per Richard Simpson

Received the 22d of February 1762. of the honourable the united East India company, Four thousand pounds fixteen shillings and sixpence, for Mr English and company.

Per Peter Spinks

L 4000 16 6

Received the 26th of April, 1762, of the governor and company of the bank of England, Ten thousand fifty pounds eighteen shillings, for Thomas Caxton and company,

Per Edward Carter.

L. 10,050 18 -

Received the 26th of June, 1762. of the worshipful company of mercers, Eighty fix pounds for my father Christopher Yates,

Per Edward Yates.

L. 86 ---

Received the 24th of April, 1762, of Mr Richard Foxcraft, Fitteen pounds, for a quarter's rent due at Christmas last, for my master George Gibbons,

Per Ifaac Jobson.

L 15 --

Received the 14th of July, 1762- of Mr Lewis Armtrong, Thirty five pounds eight shillings, in part of a ill of One hundred pounds, payable to Mr Simon Pure r order, due the 10th inflant,

Per George Norton.

. 35 — —

Received the 29th of February, 1762. of MrThomas naurence, by order of Mr John Kent, the fum of One undred and fifty pounds fix fullings and ten pence, on count of Mr Nathaniel Gombs, of Appleby: I fay reeived for my mallers George Pye and partner,

Per Maac Taylor.

150 06 10

forms of Acquittances, upon receipt of money, by mafters and men of bufiness themselves.

Received the 16th of June, 1762. of Meffis Thomas and George Simpson, Six hundred and forty wounds on accompt,

.. 640 ---

Received the 4th of September, 1762. of the honougable William Parrot, Efq; the fum of Three hundred and fifty pounds, in full of all demands for felf and ompany.

Per George Dawfon.

. 350 -

4. 20 ---

Received the 17th of August, 1762. of Mr James ims, Thirty pounds, in full for interest of twelve hunred pounds, due at Midsummer last,

Per Thomas Lowther,

Received the 19th of September, 1762, by the order and for the use of Mr Benjamin Blundell, of Mr Stephen Carr, Ten pounds ten hillings, and allowed for taxes and repairs, one pound ten, together, the sum of twelve pounds, in full for a quarter's rent, due at Midfinmer lass.

Per Joseph Rentroll.

L. 12 ---

Received the 23d of June, 1762. of the executors of James late earl of Bath, by the hands of Mr John Thomson, the sum of Sixty sive pounds twelve shillings, in full for my half year's annuity due at Lady-day.

Per Charles Steward

L. 65 - -

Received the 1st of June, 1762. of Robert Pringle, Effect and the other owners of the ship Berwick, the fum of One hundred and eight pounds ten shillings, infull for cordage, tackle, and trimming, furnished the faid ship.

Per Andrew Shipwright.

L. 108 — —

Promiffory Notes by Bankers Apprentices and Servants.

Briftol, September 7th, 1762.

Promife to pay the honourable Charles Snell, Efg. or bearer, on demand, Fifty pounds, Pages in Pichard Jones and partners.

For Sir Richard Jones and partners,
Per Anthony Timons.

L. 50 --

Forms of Promiffory Notes.

83

London, November 20th, 1762.

I promife to pay the royal African company or beart, on demand, Four thousand fix hundred and fixty our pounds thirteen hillings and fixpence, for my maters George and James.

Per Adam Eve.

4664 13 06

Promissory Notes for a man's felf, &c.

Promife to pay to Nathaniel Smith, or bearer, on demand, Nine hundred pounds, June 2d, 1762.

. 900

I promife to pay to the governor and company of the ank of England, Ten thouland pounds, value received his oth of June, 1762, for myfelf and partners,

Per Ifrael Jack,

4 TO.000 ---

London, August 2d, 1762.

I promife to pay Mr Daniel Pope, Cashier of his marely'e revenue of excise, or order, forty days after date, ive hundred and thirty pounds, value received,

Per Andrew Cash.

530 ---

I promise to pay to Peter Paul, Esq; or order, on deaand, Four hundred and ninety pounds, value received his oth of April, 1762.

Per Peter Vernon.

. 490 -

I promife to pay to Francis Dove, Efq; or order, the ram of fixty pounds, on demand, after a receipt of a bill f exchange drawn the 9th current, by George Trade, as Henry Henly of Northampton, mercer, for the like

fum payable to William Pack, Efg; or order, which the faid Frances Dove has indorfed to me, this 25th of

Per James George.

I. 60 -

7 NOW all men by these presents, That I Michael Pool of the county of Durham, gent, do own and acknowledge myfeif juftly to fland indebted to Alexander Anderion of the county of York, haberdasher, the just fum of twenty four pounds, of good and lawful monev of Great Britain, and which I do hereby promife to pay unto him the faid Alexander Anderson, on the 6th day of April, next enfuing the date hereof. Witness my hand this 12th day of September, in the year of our Lord 1762.

Michael Pool.

M Emorandum, That I Thomas Bell, of the parish of St Ambrose, salter, do owe and am indebted to James Purves of the faid place, mercer, the fum of Sixty pounds of good and lawful money of Great Britain, which fum I promife to pay to the faid James Purves, his executors, administrators, or assigns, on or before the 23d day of October next. In witness whereof I have hereunto fet my hand and feal, the 27th day of June, in the year of our Lord 1762.

Thomas Bell. (L. S.)

Signed, fealed, and delivered. (being first legally stamped) in presence of John Thompson. Michael Wentworth.

A promiffory note, mentioning order, is indorfcable from one person to another, which is done by the prefent pofferfor's writing his name on the back of it, and delivering it up to the party, to whom he intends to affign over his property therein.

The delivering up a promissory note to the person who figned it, is a fufficient voucher of it's being paid, nor is

there need of writing a receipt thereon.

Promiffory notes, and book debts, if not legally demanded in the space of six years, cannot be recovered by law upon the debtor's-pleading the statute, but they are recoverable in chancery.

If you keep a promiffory note on demand, in your own-hands above three days, and the perfon it is upon should fail, the lofs will be your own; but if he fail within three days, it will light in equity on the perfor

that paid it you.

Promissory Notes.

Porrowed and received of John Derby, Efq; Sevender, on demand. Witness my hand this 29th of September, 1762.

Per Joseph Jones.

L. 70 0 0

Borrowed and received of Mr Timothy Trufty, Thirty pounds, which I promife to pay to him, or order, three months after date. Witnefs my hand this 14th of August, 1762.

Per Roger Dods.

L. 30 0 0

I promife to pay to James Forrester, Esq; or order, Pwo hundred pounds eighteen shillings, on demand, ralue received. Witness my hand this 17th day of Juy, 1762.

200 0 0

Per Roger Cook,

N. B. Observe in promissory Notes, that the value received is mentioned, or they are of no force.



ARITHMETIC.

A Fter you are compleat in writing, you next proceed to arithmetic, the knowledge of which is fo neceffary, that fearee any thing in life, and nothing in trade can be done without it.

And first of notation and numeration.

In notation we must observe that all numbers may be, and now generally are expressed by, or composed of the ten seures or characters following, viz.

One, two, three, four, five, fix, feven, eight, nine, cypher

Nine of these are called fignificant figures, to distinguish them from the cypher, which itself fignifies nothing: but as it placed (in whole numbers) ferves to increase the value of the next figure or figures that stand before it; as a is but three; but before the cypher thus, 30, the 3 becomes three, &c. - We are to note, that every one, or any of the above nine figures or digits have two values, one certain, and another uncertain : the certain value is, when it stands alone by itfelt: the uncertain is, when joined or placed with other figures or cyphers: for when any one of thele figures stands alone, it fignifies no more than its own simple value : as 5 is but five, 4 but four, 6 is but fix, and 2 no more than three, &c. And this is the certain value of a figure: but when another figure or cypher is aunex. ed, then they are increased in their value ten times : as 4, or five unites, or ones, to five tens or fifty, 4 to 4 tens or forty, 6 to 6 tens, or fixty, and 3 to 3 tens, or thirty, as thus, 51, fifty one: 42, forty-two: 63, fixty-three: 34, thirty-four, &c. Again, if any of the faid figures fland in the third place towards the lefthand they then fignify fo many hundreds as fingly they express unites or ones, as 500 is five hundred, 400 four hundreds, 600 fix hundreds, and 300 three hundreds, 80c. If any of them poffels the fourth place towards the left-hand, they are fo many thousands as they contain unites; and fo any, or every figure increases by a tenfold proportion, from the right hand to the left, according to the place it is found or flands in; fo that 5 may be but five, or fifty; five hundred, or five thouland; in the first place, 5; in the fecoud, 50; in the third, too; and in the fourth place, 5000, &c.

The Numeration Table.

Hundreds of thouland Tens of thoulands of Thoulands of millions Hundreds of millions Tens of millions Millions Hundreds of thoulands Tens of thoulands Hundreds Thoulands Hundreds	Thoufands of millions Millions Thoufands Unites, or once
4 1 0 0 0 0 0 0 0 4 W U H	mmm
1 2 3 4 5 6 7 8 9 0 1 2 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 4 7 1 2 7 1 2 8	123 456 789 012 12 345 678 90 1 234 567 890 123 456 789 12 345 678 1 234 567 1 234 567 1 234 567 1 234 567 1 234 123 1 234 123

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For the easier reading of any number, first get the words at the head of the table by heart; as units, tens. hundreds, thousands, &c. and applied thus, 75, five units, five, and 7 tens, feventy, that is, feventy five. Again, 678; 8 units, eight, 7 tens, feventy; and 6 hundred, fix hundreds : that is, fix hundred feventy eight, Once more, 2456; 6 units, fix; 5 tens, fifty; 4 hundreds, four hundred; 3 thousands, three thousands : together three thousand four hundred fifty fix. Read the 4th line of the table downwards, viz. 122456780; here the valuation of the figures is from the right hand to the left, as I in the ninth place is hundreds of millions, but to be read from the left hand to the right; thus, one hundred twenty three millions, four hundred fifty fix thousand, seven hundred eighty nine. But any number may yet be read more intelligibly, viz. by flops, thus : make a comma at every third figure or cypher, begining at the right hand, and fo on towards the left, making a flop after every third figure or cypber, as aforefaid, thereby diflinguishing every third place into hundreds, as hundreds of units, bundreds of thousands, hundreds of millions, and hundred thousands of millions, &c. and for tryal let's read the first line of the table; the last place in valuation is hundred thousands of millions, and to be pointed into periods thus, 123,456,789 012; and read thus, one hundred twenty three thousand, four hundred fifty fix millions, feven hundred eighty nine thoufand twelve; that is no hundreds, but twelve. read the following number, viz. 276,245,678,921,460; here the first point or period is betwist 4 and 1, and the last betwixt 2 and 6, and to be read thus; 276 millions of millions, 245 thousands of millions, 678 millions, 921 thousands, 460 units or ones. And thus may any number be read with eafe, tho' a large one; and thus are large numbers or fums expressed, or fet out in the exchequer, bank and lottery tickets, &c. as thus, No. 225, 156-19,478-and 42,000, &c. the foregoing table of numeration is on the right hand distanced out into periods, for the easier reading thereof.

Numbers to be read and written. 96, Ninty fix

242, Two hundred forty two 7924, Seven thousand nine hundred 24

54006, Fifty four thousand and fix 524207, Five hundred twenty four thousand 207

4606240, Four millions 606 thousand 240

62700472, Sixty two millions 700 thousand 472 474969204, Four hun. 74 millions 960 thouf. 204 4214007042, Four thous 214 millions 7 thous 42

470706420042, Four hundred and 70 thousand, 7c6 millions 420 thousand and 42

Of numerical letters.

Sometimes numbers are expressed by letters : especially in the bible, to fignify the chapter or pfalm; at the bottom of title pages of books for the date of the year. and frequently in inferiptions of funeral monuments, Oc. for which reason 'tis necessary to know how to read hem. Therefore observe, that I, stands for I, or one anit, 11. for 2.111. for 3. 1V. for 4. V. for 5. VI. for 6. VII. for 7. VIII. for 8. IX. for 9. X. for 10 XI, for 11. KII. for 12, XIII. for 13. XIV. for 14. XV, for 15. KVI. for 16. XVII. for 17. XVIII. for 18. XIX. for 9. XX. for 20. XXI. for 21. &c. XXX. for 30. IXXI. for 31. &c. XL, for 40. XLV. for 45. &c. L. or 50. LI. for 51. &c. LX. for 60 LXI. for 61. &c. XXX. for 70. LXXI for 71. &c. LXXX. for 80. XXXI. for 81. &c. XC. for 90 XCI. for 91. &c. C. or 100. CC. for 200. CCC. for 300. CCCC. for 400.), or ID. for 500. DC. for 600. &c. M. or DID for 000. &c. Thus the present year 1762, is wrote

ADDITION,

TS the putting together two or more numbers or fume in order to make them one total, or whole fum;

Here we must always observe to set the numbers to be ided, orderly one under the other; that is, units uner, units, tens under tens, hundreds under hundreds, c. as in the subsequent examples.

H 3

Addition of numbers of one denomination.

Yards Gallons Po

1 81 03	Cartons	A Odinas
8 8 9 4 Vnits	6 9 8 4 2 Hund.	Thornt Sin A 2 2 2 3 9 9 6 7 4 6 7 9 6 7 4 6 9 2 4 6 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
2 4	7 5 6	57762
4 6 8	5 3 2 4 7 8	3 9 9 4 4 6 7 2 2 2
8 2	090	79074
2 4	A 2 2	0 2 4 6 2
4 2	6 7 8	00390
286	3 5 6 2	247484

In addition of fimple numbers, whether it be yards, gallons, pounds, or any thing effe, remember to carry I for every 10 you find in the row or rank of figures being units to the next row of tens; and the like from the rank of ters to the row of hundreds, &c. and whatever it makes in the laft, you must fet it down, amounts

to what it will. Thus:

The numbers above are fet down in order, as before directed: that is, units under units, tens under tens, &c. as may be plainly understood, by being indicated at the head of each row or rank with units, tens, hundreds, &c. Then in casting up each example, to know its total, I begin at the right hand, or units rank, of the first example, and fay 2 and 4 is 6, and 2 is 8, and 8 is 16, and 6 is 22, and 4 is 26; in which row there are two tens and 6 over; wherefore I fet down 6 just under its own rank, and carry 2 to the next or last row, and fay, 2 that I carried and 4 makes 6, and 2 is 8, and 8 is 16, and 6 is 22, and 4 is 26, and 2 is 28; and it being the last row, I fet down the amount, viz 28; fo that the total number of yards is found to be (by the method) at the bottom 286. And the next, or fecond example, is found by the same method to be 3562 gallons. And in the third and last example, the total number of pounds is found to be 247484, and to the total of any other example of the same kind, viz, simple numbers of one denomination, may be found. Note, that when any of the ranks amount to just 10, 20, 30, 40, 50, &c. then rou must fet down the o, under its proper rank, and caryeither 1, 2, 3, 4, or 5, according to the number of
ens that you find, to the next row; and so you melt always do, when it so happans, whether in the first, sesond or third row, or in any other except the lait, where
what it amounts to must be fet down without any referve
that carriage in the mind, because there is no other row
the rank to carry to, as was hinted before.

Addition of Mixed Numbers.

Observe, 4 tarthings make 1 penny, 12 pence make E hilling, 20 shillings make 1 pound sterling.

Libra in Latin fignifying a pound, /. therefore stands

Solidus in Latin fignifying a shilling, so therefore stands

mes under farthings.

or shillings.

Denarius in Latin fignifying a penny, d. therefore.

lands for pence.
Quadraos in Latin, fignifying a farthing, q. therefore

tands for farthings.

Observe, that pounds be fet directly under pounds, hillings under shillings, pence under pence, and farth-

But before you proceed, get this table of pence by seart thus, 30d. is haft-a-crown, then 6od. is 5t. again tod. is 3t. again 6od. is 3t. add then 8od. is 6t. 8d. again 3od. is 4t. 2d. then 10od. is 8t. 4d. &c. 10olb. of cheefe at 3d. the lb. times to three times 8t. 4d. or 100 faggots, 120 to the undred, at 1d. a-piece, comes to 10t in the table.

d.	sould sould.	5.	1.	Sa
20	1 8	307	(I	10
30	2 6	40	12	00
40	3 4	50	12	10
150	4 2	60	3	00
60	5 0	70	3	10
70	is { 5 10	80 is	44	0.0
80	6 8	90	4	10
90	7 6	100	15	00
100	8 4	110	15	IO
OII	9 2	120	16	00
20	[10 a	1 130)	6	10

Then for every crown that a hundred of faggots coft, reckon an half-penny; if the faggot cofts me three half-pence; one hundred will coft 151, because there is three crowns in it.

Note, That young men may improve themselves very much in reckoning up divers things, after they have by heart the table aforesaid, and learning this rule of ad-

dition

An hundred yards of tape at one penny the yard, the table tells you comes to 8s. 4d.

An hundred yards of ferreting at one penny half-penny the yard.

In the table 100d. is - - 81. 4d. And half the fum is - 41. 2d. Answer 121. 6d.

If one pound of any thing costs 7d. halfpenny, what will 280 lb weight cost after that rate; performed by addition thus,

de actions and a second			
200 fixpences makes 100r	5.	-	
80 fixpences make	2		•
200 pence		16	8
So pence is a noblé, or		6	8
200 half pence is 100 pence, or -		8	4
80 halfpence make 10 groats, or -		3	4
Price of the good	ls 8	15	C

Note, Now you have by heart the table of pence, you may calt up any fum of money without dotting, for when you know the number of pence, you may by this table, know how many failings to carry to the fhillings place, and for the number of fhillings in the row of shillings you know that 70.48 34. 10.

(10) (20) (12) 12 fet over the pence, shews that

1.	5.	d.	for every 12 I find in the pence rov
17	16.	1	I am to carry I to the shillings; fo
20	II.	7.	fo many 20s. as I find in the shilling
23	18.		row, I to the place of pounds as a
73	17	10	forefaid.

this fum (for the young learner) is by

using dots, thus;

Beginning at the pence; I fay 10d, and od, is 10d, here against the o I fet a dot for 12d. (or you may ke your dots on walle paper) and what is more or ove 12 I carry to the next figure, viz. 7, and it makes where I fet a dot also for 1.2. and carry the remain-2 to the 1 on the top, which makes 2, which 2d. I between the lines, as you fee in the example.

Next, I look how many dots there are, and find 25. ich I carry to the row of shillings, faying, 2 that I rry and 17 is 19, and 18 is 27, where against the 18. et a dot for 20s for 1/2 and carry the odd 17s. upards faving, 175. I carry and 11 is 28, where I fet a against the 11 for another 201, and carry the remain-8 to the 16 on the top, faying 8 I carry and 16 makes where I fet down a dot for 201, and fet between the es the remaining 41. under the row of shillings.

Note, That you may fum up the shillings row without tting, thus; faying, 21, that I carry from the place of nce, and 7 is 9, and 8 is 17, and 1 is 18, and 6 is 24. 1 10 is 34, and 10 is 44, and 10 is 54, and 10 is 64, at is 21. 41. then the 41, being fet between the lines,

2 2/ is to be carried to the pounds.

Lastly, The 3 dots for the 31. found in the place of Hings, I carry to the pounds, faying, a that I carry 1 3 is 6, and 3 is 9, and 7 on the top makes 16, the naining 6 I fet between the lines, under the first row the pounds, and I carry I to the last row, faying, I it I carry, and 7 is 8, and 2 is 10, and 2 is 12, and I a 3, which being fet between the lines, the whole fum mes to 1361. 41. 3d.

Note, That when you are to write a bill of feveral all parcels, begin it in order of pounds, thillings, and nce. 0 - 3 - 9, and when you are to fet down 16d. down Is. 4d. or to fet down 23s. you must fet 1/.

od-

If a man owes me the three following fums of money at come they to in whole ?

1. s. d. Note, That the 7\frac{1}{2}\tau_1 is feven pence
202 17 7\frac{1}{2} halfpenny; and 1\frac{1}{2}\tau_1 is one penny
703 1 9 farthing; and in the total fum be90\tilde{6} 10 1\frac{1}{2} tween the lines 5\frac{1}{2}\tau_1 is five pence three
farthings

1812 9 5 To cast up the three fums I do thus, the 4 which is the farthings, and the

the halfpenny, make to r three farthings, which is fet between the lines; next 1d. and 9d. is 10d. and 7d is 17d. where against the 7 is fet a dot for 12d. and fet the odd 5d between the lines.

Next, I that I carry from the place of pence and Ios. is 11, and 1 is 12, and 17 is 29s. I fet down the remaining 9s. between the lines, and the 20s. making 14. I carry to the place of pounds;

Saying, I that I carry and 6 is 7, and 3 is 10, and 2 is 12, where I fet a dot for 10, and fet the remaining 2

between the lines.

Next, I carry the dot for 10, as 1 to the middle row (being all cyphers) and proceed to the last row;

Saying, 9 and γ is 16, and 2 at the top is 18, which I fet between the lines, and the whole fum comes to 1812/, 95 $5\frac{3}{4}/$.

Addition of Money.

Money owing and money received, as follows.

	(1)		, ,		(2	,):		,
	r	- Í.	5.			f		5,	a.
	Mr-	4		6		Mr		10	9
	Mr	7	06	9	E	Mr	79	16	0
to	Mr	4	12	0.	L	Mr	42	18	3
Owing	Mr-	6		7	10	Mr-	66	12	4
, M	Mr	5	06		I.V.	Mr	90	16	0
0	Mr		12		33	Mr Mr	84	17	6
	Mr	6	00	0	12	Mr	24	12	0.
	Mr—	5	15	4		[Mr-		18	0
13		45	02	II	1	-	496	12	IO

I begin and fay, 4 and 2 is 7, and 9 is 12, and 7 is to, and o is 20, and 6 makes 35d, now 30d, according o the table, is 21. 6d. and 5d. makes 21. 11d. I fet lown II exactly under the rank of pence, and fay, 25. hat I carry (which I do to the rank of shillings) and s 57, and 2 is o (for I only take the unit rank of shillnes) and 6 is 15, and 7 makes 22, and 2 is 24, and 6 20, and 2 makes 32; and now being come to the top of the fum, and it making 22. I come down with the ens of shillings, saying 32 and 10 is 42, and 10 is 52, nd 10 is 62, and 10 is 72, and 10 makes 821. and the hable telling me that 80s. is 4/. I know therefore 82s. 4/. 21. wherefore I fet down the remaining 21. just under the row of shillings, and carry 4/. to the pounds, aying, 4 that I carry, and 5 is 0, and 6 is 15, and 4 is 9, and 5 is 24, and 6 is 30, and 4 is 34, and 7 is 41, and 4 is 45/4 fo that the total of these several sums of money due to those several persons, amounts to 45%, 25. Id. as in the example.

In the fecond example of money received, I begin at me right hand and fay, 6 and 4 is 10, and 3 is 13, and makes 22, and 22d, being Is, 10d, I fet down 10. and carry one to the fhillings, faying, I that I carry and is 3, and 7 is 10, and 6 is 16, and 2 is 18, and 8 is 26, and 6 makes 32; then I come down with the tens, fayng, 32 and 10 makes 42, &c. and I find at the bottom comes to 1121, which making 5/. 121. I fet down 121. and carry 5% to the pounds, faying, 5 that I carry and lis 9, &c. I find at the top it amounts to 36, wherepre I fet down 6 exactly under its own rank, viz. the lank of units of pounds, and carry a for the tens that are 1 30 (for at all times in the first denomination of addinon, whether of money, weight, or measure; that is the denomination of pounds, tens, or yards, you must lift them up as fums of one denomination ; that is, for every ten carrying I to the next, &c.) faying, 3 that I art v. and 6 is o, and 2 is 11, and 8 is 10, &c. and I and then at the top it comes to 49; wherefore I fet bwn 40 before the 6, and the total amounts to 4061. 21. Iod.

A Table of English Coins.

Of Gold.

Of Silver.

The names of the rest speak their value, as a shilling, a fixpence, a groat, or 4d. a threepence, a twopence, a penny.

A Halfpenny, A Farthing.

Besides the above mentioned, we have still in use the names of some other pieces, which are now but imaginary, viz.

Of Troy weight.

The least fraction or denomination of weight used in England, is a grain of wheat gathered out of the middle of the ear, and well dried; from whence are produced those following tables of weight, called Troy weight-

32 Grains of wheat 24 Artificial grains 25 Penny weight 20 Penny weight 2 Ounces 1 Pound.

And therefore,

lb.	oz.	pw.	grain
12-	I 2	20	24
1-		240-	
	1	20	480
		I	24

Troy weight ferveth to weigh bread, sold, filver and electuaries. It regulateth and prescribeth a form how to keep the money of England at a certain standard. The goldfmiths have divided the ounce troy weight into ather parts, which they generally call mark weight. The denominative parts thereof are as followeth, viz. a mark (being an ounce troy) is divided into 24 equal parts, called carects, and each carect into a grains; fo that in a mark are of grains. By this weight they diffinguilh the different firmnels of their gold; for if to 22 carects of gold be put 2 carects of alloy (which is of firver, copper, or other baier metal, with which they ufe to mix their gold or filver to abate the fineness thereof) both making when mixed but an ounce or 24 careds, then this gold is faid to be 22 careds fine; for if it come to be refined, the 2 carects of alloy will fly away, and leave only 22 carects of pure gold: the like to be confidered of a greater or leffer quantity. And as the inenels of the gold is estimated by careds, fo the finenels of filver is diffinguished by ounces; for if a pound of it be pure, and loseth nothing in refining, such filver s faid to be 12 ounces fine; but if it lofeth any thing, t is faid to contain fo much fineness as the loss wanteth of 12 ounces; as if it loft t ounce 14 penny weight, then it is faid to be to ounces 6 penny weight fine, and hat which lofeth 2 ounces 4 penny weight 16 grains, is Taid to be o ounces 15 penny weight 8 grains fine, &c. the like to be understood of a greater or less quantity.

Of apothecaries weight.

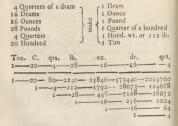
The apothecaries have their weights deduced from roy weight, a pound of troy being the greatest integer; trable of whose division and subdivision followeth, viz.

And therefore.



Thus much concerning troy weight, and its derivative weights, which, as was faid before, ferreth to weigh bread, gold, filver, and electuaries. Now, befides troy weight, there is another kind of weight used in England, commonly known by the name of avoirdupois weight (I pound of which is equal to 14 ounces, 12 penny weight troy weight): and it ferveth to weigh all kind of grocery wares, as also butter, cheefe, flesh, wax, tallow, rofin, pitch, lead, and all fuch kind of garble; the table of which weight is as followeth.

A Quarters of a dram



Wool is weighed with this weight, but only the divifions are not the fame, a table whereof followeth.

A table of the denominative parts of wool weight.

Last. sack. wey. todd. stone. clove. lb.

Note, that in some counties the wey is 256 lb. avoirdupois, as the Suffolk wey; but in Essex, there is 336 lb. in a wey.

The leaft denominative part of liquid measure is a pint, which was formerly taken from troy weight (t pound of wheat, troy weight, making a pint of liquid neasure); but in regard of the difference between the brewers and farmers of his majesty's excise, concerning the gauging of wessels, occasioned by the different opinions of artists concerning the fold inches in a gallon, it was larely decided by act of parliament; the statute now making 280 fold inches in a beer gallon, and 231 in a wine gallon; and consequently the pint beer measure to contain 35½ folid inches, and the pint wine measure to contain 25½ cubical or folid inches. From whence is drawn the following table.

2 Pipes or butts





I Tun of wine

The least denominative part of dry measure is also a pint, and this is likewise taken from troy weight: the table of whose division followeth.

The table of dry measure.

r Pound troy	1117	I Pin
2 Pints	100	I Qua
2 Qarts	DOLD	I Pott
2 Pottles	1925	I Gal
2 Gallons	0)	I Pec
4 Pecks	1 ×	I Buff

4 Bushels E I Comb
2 Combs I Quarter
4 Quarters I Chaldron

5 Quarters 1 Wes



The least denominative of long measure is a barleyeorn well dried, and taken out of the middle of the ear; whose table of parts followeth.



And therefore,

Mile. furl. poles yards. feet. inches. barley corns.

And note, that the yard, as well as the ell is usually divided into 4 quarters, and each quarter into 4 nails.

Note also that a geometrical pace is 5 feet, and there are 1056 such paces in an English miles

3 (1188

The parts of the superficial measure of land, are such as are mentioned in the fellowing table, viz.

A table of land measure.

40 Square poles 2 (1 Rood or quarter of

or perches an acre

By the foregoing table of long measure, you are infrom what a pole, or, which its all one, a perch, is;
and by this, that 40 fquare perches is a rood. Now, a
fquare perch is a superficies very aptly resembled by a
fquare trencher, every side thereof being a perch of 5²
yards in length, 40 of them is a rood, and 4 roods an
acre; so that a superfice state is 40 perches long and 4
broad is an acre of land, the acre containing in all 160
fourse perches.

The least denominative part of time is 1 minute, the greatest integer being 1 year, from whence is produced this following table.

Table of time.

60 Minutes
24 Hours
7 Days
4 Weeks
13 Months, 1 day, 6 hours
15 Hour
1 Veek
1 Week
1 Week
1 Year

But the year is usually divided into 12 unequal kalendar months; whose names, and the number of days they contain follow, viz.

Days.] Tanuary 31 February March 31 April May Tune July 31 August 31 | September 30 1 October November 20 December 2651

So that the year containeth 365 days and 6 hours, but the 6 hours are not reckoned, but only every 4th year, and then there is a day added to the latter end of February, and then it containeth 29 days, and that year is called leap year, and containeth 366 days.

10 2

And here note, that as the hour is divided into 60 minutes, fo each minute is subdivided into 60 seconds. and each fecond into 60 thirds, and each third into 60 fourths, &cc.

The tropical year, by the exacteft observation of the most accurate altronomers, is found to be 265 days, 5

hours, 40 minutes, 4 feconds, and 21 thirds.

The following example will make this rule plain to the learner. Thus these following sums being given to be added, viz. 1261, 121, 41, 2015, and 701, 71, 10d. 3grs. and 331. 18s. 9d. 1gr. and also 151. 9s. 5d. ogrs. the numbers being disposed according to order will stand as in the margin. Then begin at

1.

33 18

15

the denomination of farthings, and add them up; faying 1 and 3 are 4. and 2 makes 6. Now, I conlider that 6 farthings; are 1 penny and 2 farthings : wherefore I fet down the 2 farthings in its place

under the line, and keep I in mind 265

to be added to the next denomina-

tion of pence. Then I go on, faying, 1 that I carried and 5 are 6, and 9 are 15, and 10 are 25, and 4 are 20. Now I confider, that 20 pence are 2 shillings and 5 pence; therefore I fet the 5 pence in order under the line, and keep 2 in mind for 2 shillings, to be added to the shillings. Then I go on, faying, 2 that I carried and 9 are 11, and 18 are 29, and 7 are 36, and 12 are 42. Then I confider that 40 shillings are 2 pounds and o fhillings; wherefore I fet the o fhillings under the line. and carry 2 for the 2 pounds to the next and last denomination of pounds; and proceed, faying 2 that I carry and 5 makes 7, and three are 10, and 9 are 19, and 6 are 25. Then I fet down 5, and carry 2 for the 2 tens. and proceed; faying, 2 that I carried and 1 is 3, and 3 are 6, and 7 are 13, and 3 makes 16. And I fet down 6, and carry I for the 1Q, and go on; faying, I that I carried and I are 2; which I fet in its place under the line, and the work is finished. And thus I find the fum of the foresaid numbers to be 265 /. 91. 5 d. 2 grs. This to the ingenious practitioner is sufficient. But I shall for the further illuminating of the weaker apprehentions. explain the operation of anothor example in troy weight. And here the learner must take notice of the table of troy weight mentioned before. The numbers given in this example are, 38 16, 70 z. 13 pw. 18 gr. and 50 16 10 z. 10 pw. 12 gr. and 42 16. 8ez - 5 pw. 16 gr. And in order to the addition thereof, 1 place them as you fee, and proceed to operation; 1 sings, 16 and 12 are 28, and 18 are 46. Now, because 24 grains make 1 penny weight, 46 grains are 1

penny weight, and 22 grains; lb. cz.
wherefore I fet down 22, and carry 1. for the penny weight: and
going on, I fay, 1 that I carry and
5 are 6, and 10 are 16, and 13 are

38 7 13 18 50 10 10 12 42 8 5 16

39; which is I ounce and 9 pen-

ny weight. The cown y in the ounces; faying, I that I carry and 8 are y and I o are 19, and 7 are 26. And because 26 ounces make 2 pounds, 2 ounces, I fet down 2 for the ounces, and carry 2 to the pounds going on, 2 that I carry and 2 are 4, and 8 makes 12; that is 2 and 10 11; then I I carry and 4 are 5, and 5 are 10, and 3 makes 12; which I fet down as in the margin, and the work is finished: and I find the sum of the said numbers to amount to 132 (b. 2 xz. 9 ptm. 22 gr. This is sufficient for the understanding the following examples, or any other that shall come to thy view. The way of proving these, or any sum in this rule, is shewed immediately after the ensuing examples.

Addition of troy weight.

	5.	7	pw.	12		9		18
I		6	16	18	389	7	6	13
	9	4	18	22	83	0		12
-	2	0	0	0	1550		13	
9	7	5	4	41	1330	0	7.7	-

Addition of Apothecaries weight.

lb.	oz.	dr.	ſc.	gr.	lb.	oz.	dr.	ſc.	gr.
48	7		0	14	60	3	4	0	10
74	5	5	2	10	48	10	6	0	14
64	10	7	1	II	34		2	I	15
17	8	I				II		2	II
34	9	6	I			7			15
-			passage half		35	2	-5	1	7
240	5	6	1	0	the party and		-	-	-
					358	7	7	0	1,2

Addition of avoirdupois weight.

Tuns	C.	qrs.	lb.	- 1	lb.	oz.	dr.
75	13	I	15	- 1	36	10	12
48	7	3	21	- 1	22	ΙI	13.
60		1	17	- 1	II	7	4
2 I*	7	0	25			4	
12	16	0	II		20	10	9
	-	-			-		
218	17	0	5		106	13	0

Addition of liquid measure

ridation of rights measure.											
Tuns.	pipes.	hhds.		Tuns.	hhds.	gall.	pint				
45	1	I	48	30.	3.	40	4				
15	. 0	I.	17	12	0	28	6.				
38	0	0.	47	47	5	60	5				
12	I	0	56	57	3	22	3				
21	1	1	- 18	17	0	0	0				
							-				
122	0	I	60	168	1	26	2				

Addition of dry measure.

١	Chald.	qrs.	bush.	pec	Qrs.	bush.	pec.	gal
	48	3	7	3	17	3	1	I)
	13.	I	4	0	50	I	3	0
	54	0	6	2	14	5	3	I
	16	3	6	1	40	2	0	I
	40	Z	0	1	30	0	3	0
	-	-		-	-		-	descende
	192	2.	0	2	152	5	2	I.

106				MET		
	A	dditio	n of l	ong mea	fure.	
	Y'ards	grs.	nails.	Ells	qrs.	na
	35	3	3	57	I	3
	14	- 1	2	13	3	2

1	ards	qis.	uans.	Elis	dis.	manis
	35	3.	3	57	1	3
	14	- 1	2	13	3	2
	74	2	3	48	2	I
	38	0	1	50	I	0
	30	1	0	74	0	2
	15	0	0	17	1	0
	-		-	-	-	
	208	- T	4 .	260	^	0

Addition of land measure.

Acres roods perches | Acres roods perches 12 14 20 IQ 73 48 28 38

185. 286

The proof of addition.

Addition is proved after this manner. When you have found out the fum of the number given, then feparate the uppermost line from the rest with a stroke or dash of the pen, and then add them all up again as you did before, leaving out the uppermost line; and having To done, add the new invented fum to the uppermost line you feparated; and if the fpm of those two lines be equal to the fum first found out,

then the work was performed true,

otherways not. As for example : let us prove the first example ofaddition of money, whose fum we found to be 265 / 91 5d 2 grs, and which we prove thus. Having separated the uppermost number from the rest by a line, as you 265 fee in the margin; then add thefame together again, leaving out 128

the faid uppermost line, and the-

fum thereof I fet under the first fum 265 0

or true fum, which doth amount to 128%, 16s, 1d o qss, then again I add this new fum to the uppermoft-line that before was feparated from the reft, and the fum of those two is 265% os. 5d 2qss, the fame with the fifte fum; and therefore I conclude that the eperation was rightly performed.

The main end of addition in questions refolvable thereby, is to know the sum of several debts. parcels, integers, &c. Some questions may be these that follow.

Quest, 1. There was an old man whose age was requied. To which he replied, I have seven sons, each having two years between the birth of each other; and in the 44th year of my age my eldest son was born, which is now the age of my youngest, I demand, What was the old man's age?

Now, to refore this question, first fet down the father's age at the birth of the first child, which as was 44; then the difference between the oldst and the youngest, which is 12 years; and then the age of the father, and their sum is 100, the compleat age of the father.

Quest. 2. A man lent his friend at several times these several sums, viz. at one time 63 / at another time 50 / at another time 48 / at another time 156 /, Now, I defer to know how much he lent him in all?

Set the sums lent under one another as you see 63 in the margin; and then add then together, and 50 you will find the sum to amount to 317 f. which is 40 the total of all the several sums lent, and so much 156 is due to the creditor.

317

Quest. 3. From London to Ware'is 20 miles, thence to Huntington 29 miles, thence to Stamford 21 miles, thence to Wardford 25 miles, thence to Wenthvige 25 miles, from thence to York 20 miles. Now I d. line to know how many miles it is from London to York, according to this reckoning?

Now to answer this question, set down the several distances given, as you see in the margin; and add them together, and you will find their sum to amount to 151; which is the true distance in miles between London and York.

15

36

94

Quefit 4. There are two numbers, the least whereof is 40, and the difference 14. I defire to know what is the greater number, and also what is the sum of both? First let down 14. I have a sum of the least, viz. 40, and 14 the clifference; and add them together, and the sum is 54. Greatest 54 for the greater number. Then I set 40 Least 40 (the least) under 54. (the greatest), and

Of fubtraction of whole numbers.

add them together, and their fum is or,

equal to the greatest and least numbers.

Subtraction is the taking of a leffer number out of unber, being or declaring the inequality, excets or difference between the numbers given. Or, fubtraction is that by which one number is taken out of another number given, to the end that the refulue or remainder may be known; which remainder is also called the reft, remainder or difference of the numbers given.

2. The number out of which subtraction is to be made, must be greater, or at least equal with the other number given. The higher or superior number: is called the major number; and the lower or inferior is called the minor number; and the operation of subtraction be ing finished, the rest or remainder is called the difference

of the numbers given.

3. In fubtraction, place the numbers given refpectivety the one under the other, in fuch fort as like degrees, places, or denominations may fland in the fame ferics viz. units under units, tens under tens, pounds under pounds, &Cc, feet under feet, and parts under parta. Ec. This being done, draw a line underneath, as in addition.

4. Having placed the numbers given as is before directed, and drawn a line under them, fubrach the lower number (which in this cafe mult always be lefs than the uppermolf) out of the higher number, and fubferibe the difference or remainder refpectively below the line; and when the work is finished, the number below the line, will give you the remainder.

As for example: let 364521 be given to be subtracted from 795836. I set the lesser under the greater, as

in the margin, and draw a line under them :

then beginning at the right hand, I fay, 1 out of 6 and there remains 5, which I fet in order under the line. Then I proceed to the next, faying 2 from 2 refts 1, which I note allo un-

faying 2 from 3 refts 1, which I note also under the line. And thus I go on till I have fi-

nished the work. And then I find the remainder or difference to be 421315.

5, But if it is happen, as commonly it doth, that the lowermoft number or figure is greater than the uppermoft; then, in this case, add to to the uppermoft number, and thirtseth the faid lowermoft number from their fum, and the remainder place under the line; and when you go to the next figure below, pay an unit, by adding it thereto for the 10 you borrowed before, and fubtract that from the higher number of figures. And thus go on till your fubtraction be finished. As for example: let 437503 be given, from whence it is required to fubtract 153827. I diffore for the numbers as is before directed, and as you fee in the margin; then I begin, faying, 7 from 3 I clannot, but, adding to thereto, 1 fay,

7 from 13, and there remains 6; which I fet under the line in order. Then I proceed to the next figure, faying I that I borrowed and 2 is 3 from 0 I cannot, but 3 from 10, and 283676

283678
There remains 7; which I likewife fet down as before. Then 1 that I borrowed and 8 is 9 from 5! cannot, but 9 from 15, and there remains 6. Then 1

cannot, but 9 from 15, and there remains 6. Then 1 borrowed and 3 is 4 from 7, and there remains 3. Then 5 from 3 l cannot but 5 from 13, and there remains 8. Then 1 I borrowed and 1 are 2 from 4, and

K

there refls 2. And thus the work is finished. And after these numbers are subtracted from one another, the inequality, remainder, excess, or difference, is sound to be 282676. Examples for thy further experience may be these that follow.

From 3469916	From 361576
Take 738642	Take 5864
Refts 2731274	Rells 255712

6. If the fum or number to be fubtracted is of feveral denominations, place the leffer fum below the greater. and in the same rank and order as is shewed in addition of the same numbers. Then begin at the right hand; and take the lower number out of the uppermost, if it be leffer; but if it be bigger than the uppermoft, then borrow an unit from the next greater denomination. and turn into the parts of the less denomination, and add those parts to the uppermost, noting the remainder below the line. Then proceed, and pay one to the next denomination for that which you borrowed before : and proceed in this order, until the work be finished. An example of this rule may be this that followeth. Let 375 / 13 5 7 d 1 gr be given, from whence let it be required to fubtract 57 / 16 s 3d 2 grs. In order whereunto I place the numbers as you fee in the margin, And thus I begin at the least denominati-

on, faying, 2 from 1 I cannot, there 1. 1. d. qr. for I borrow 1 penny from the next 375 13 7 1 1 things, which is 4; and adding 4 to 4 which is 1 I ave 1 from 1 and 2 17 17 2 2

1, which is 5, 1 fay, 2 from 5, and 317 17 3 there remains 3; which I put under

the line. Then going on, I fay, I that I borrowed and 3 is 4 from 7, and there refls 3. Then going on, I fay, 16 from 13 l cannot, but borrowing I pound, and turning it into 20 fillings, I add it to 13, and that is 33, wherefore I fay, 16 from 33, and there remains 17, which I fet under the line; and go on, faying 1 that I borrowed and 7 is 8 from 5 l cannot, but 8 from 15, and there remains 7; the I that I borrowed and 5 is 6

from 7, there refts 1, and o from 2 refts 2. And I find the remainder or difference to be 217/ 175 2d 2grs.

An example of troy weight may be this. I would Subtract 17 16 10 02 11 pm 20 gr from 24 16 5 02 0

pw 8 gr. 1 place the numbers ac-

cording to the rule; and begin, fay- 1 oz pw gr

ing 20 from 8 I cannot, but borrow 24 5 0 I penny weight, which is 24 grains, 17 10 I'I and add them to 8, and then are 32, wherefore I fav. 20 from 22 reits 6 6 8 12. Then I that I borrowed and II

is 12 from o I cannot, but 12 from 20, borrowing an ounce, which is 20 genny weight, and there remains 8. Then I that I borrowed and 10 is II from 5 I cannot, but 11 from 17, and there refts 6. Then 1 that I borrowed and 7 is 8 from 4 1 cannor, but 8 from 14, and there refts 6. Then I that I burrowed and I is 2 from 2, and there refts nothing. So that I find the remainder or difference to be 6/b 6 oz 8 pau 12 pr.

7. It many times happeneth, that you have many fums or numbers to be subtracted from one number; as suppose a man should lend his friend a certain sum of money, and his friend hath paid him part of his debt at feveral times. Then before you can conveniently know what is flill owing, you are to add the feveral numbers or fums of payments together, and fubtract their fum from the whole debt, and the remainder is the fum due to the creditor. As suppose A lendeth to B 564/16 10 d and

B hath repaid him 79/ 16 s 8d at one time. and 163/18 s 11d at another time, and 241/ Is s 8d at another time; and you would know how the accompt standeth between them. or what more is due to A. In order whereun-

to I first fet down the.

Paid at feveral payments Paid in all Remains

fum which A lent, and draw a line underneath it ? then under that line I fet the feveral sums of payment K 2.

as you fee in the margin: and having brought the feweral fums of payment into one total, I find their fum amounteth to $485^2/11$, 3d, which I fubtract from the fum first lent by A_3 , and I find the remainder to be 79l 57 7d, and fo much is still due to A_3 .

When the learner hash good knowledge of what hath been already delivered, he will with ease understand.

the following examples

Subtraction of money.

Subtraction of money.								
Borrowed Paid	ł	1- 374 97	s. 10 15	d. 3	70®	s 10	d II	qrs.
Remains		276	14	4	691	6	11	3
Borrowed Paid	1	1000	6	0	711	3	0	0. I
Remains	due	980	13	9	699	9	II	3
Borrowed	1		00.	٠.	3300	0	0	0-
Paid at f	ever:	al pay	ments	3	\begin{cases} 170 360 590 74	10 13 3 4	0 10 14 21	
Paid in a	11				1195	13	0	3
Remains	due			-	2104	6	11	I

Subtraction of troy weight.

Bought Sold	lb 174 78	oz o 4	dr 13 16	gr. o
Remains	95	7	16	9

ARIT	НМЕ	TIC.		rig
m 1.	lb .	oz	dr	gr
Bought	470	10	I	0.
	60	0	0	0
	35	10	18	8
Sold at feveral times	48	7	9	0
	61	II	19	23
	23	0	0	0
Sold in all	245	10	7	7
Remains unfold	224	11	13	17
Subtraction of				
lb oz dr fo				
Bought 12 4 3 C	7.5	20		
0014 0 3 1	15,	10	0 1	2 12
Remains 3 II I 4	5 -	9	11.7	0 15
Subtraction o	Eavoird	npois w	eight	
C qrs II	o o	TC	grs lb	oz dr
Bought 35 0 1 Sold 16 2 2	5 -	5 7	1 10	10 5
Sold . 16 2 2	0	3 17	1 16	9 13
Remains 18 1 2	3	1 9	3 22	0 8
Subtraction	of liqui	id meafi	re.	
Tuns hhds g	all '	Tuns h	hds g	all pints
Bought 40 I 3 Sold 16 I 4	0	60		12 4
10 1 4	_	15	0 = ,	46 6
Rem. 23 3 5	3	44 .	2 5	8 . 6
Subtractio	n of dry	measu	e.	
Chal qrs bufh	pec.	Chal	qis b	ush pec.
Bt. 100 0 0 Sd. 54 I 4		73	2	3 2
	3	46	2	3 3
Rem, 45 2 3	I	26	2 -	7 . 3
	V 0			

Subtraction of long measure.

Bt. Sold	Yards 160 95	0	nails o 2	Yards 344 177	qrs o o	nails 1
Rem.	64	2	2	166	3	2

Subtraction of land measure.

Bt. Sold	Acres 140 70	2		Acres 6co 54	0	0
Rema	ins 69	3	2	545	3	24

Proof of subtraction.

Sums in this rule are easily proved, by adding their remainders to their leffer numbers; which (if right) will make the greater.

MULTIPLICATION.

MUltiplication may be accounted the most ferviceoble rule in arithmetic; it performeth the work of many additions in the most compendious manner, brings numbers of great denominations into fmall, as pounds into fillings, pence, or farthings; tuns into hundreds, quarters, pounds, or ounces, &c. and by knowing the value of one thing, we find the value of many.

In multiplication observe these three terms, multi-

plicand, multiplier, product.

1. The multiplicand (generally the greater of the two numbers) is the number to be multiplied.

2. The multiplier (generally the leffer of the two numbers) is the number to be multiplied with.

3. The product, is the refult of the work, or the anfwer to the question. But before any thing can be done to the purpose, it is necessary to learn the following table perfect by heart.

The multiplication Table.

3, times	3 4 5 6 7 8 9	9 12 15 18 21 24 27		7 times $\begin{cases} 7 & 49 \\ 8 & 56 \\ 9 & 63 \end{cases}$ 8 times $\begin{cases} 8 & 64 \\ 9 & 72 \end{cases}$
			н	9 times 9 81
4 times	\$56 78 9	16 20 24 28 32 36		C 2 24
5 times	5 6 7 8 9	25 30 35 40 45		8 96 9 108 10 120 11 132 12 144
6 times	\$ 6 7 8 8 9	36 42 48		

What is the amount of 3 times 654?

Answer, If you set the number 654, 3 times down on paper, one over another, the total will be 1962.

But fuch questions are done by this rule of multiplication much readier, for being set down thus:

654 Multiplicand 2 Multiplier

Now to know how much 3 times 654 is, begin thus, faying, 3 times 4 is 12, the figure 2 of 12, fet below

the line, and bear the 10 of the 12 in mind, as 1-2 next, 2 times 5 is 15, and the 1 bore in mind, makes 16. fo I fet 6 below the line, and bear the ten in mind as one; next, I fay, 2 times 6 is 18 and 1 654 bore in mind makes 10, which I fet down, and the work will fland as in the margin.

1962 How many is 3 times 472? Set the figures down as in the margin; then fay 3 times 2 is 6, which place under the 2 in the multiplicand : then 2 times 7 is 21: fet down 1 under 7; and carry 2, for 2 tens, as in addition of one denomi-1416 nation; then 3 times 3 is 12, and 2 is 14, which I fet down, and the product is 1416, that is 2 times 472 makes fo much; and may be proved by addition, by feting down 473 three times in additional order, and casting it up, which makes the affertion good in the second definition, that this rule compendiously performs the office of addition. Likewise the foregoing examples agree with the first definition; for as 3 times 472 makes 1416 fo doth 472 times 3 make the fame number.

Examples. Again, How many makes 742 multiplied by 4 ?

742 Multiplicand \ Here I fay, 4 times 2 is 8, and 4 4 Multiplier 2068 Product

times 4 is 16; 6 and carry 1; and 4 times 7 is 28, and 2 is 29, which fet down; fo the whole product J is 2968, as per example.

More examples of one figure in the multiplier, are thefe, viz Multiplicand 7420 4444 7468

Product 37100 26664 52276 725632 511101

In compound multiplication.

When the multiplier confifts of more figures than one, you must begin with that figure which is in the place of

7426

22278

170798,

275827-

14852

units of the multiplier, and go thro' the whole multiplicand, by multiplying each figure of it first by that unit figure, and then by the next, to wit, by the figure in the place of tens in the multiplier, then with the third, &c. to the last; always remembering to place the first figure of every product or line (for you will ever have as many as you have fignificant figures in the multiplier) I fay, remember to place the figure of every line exactly and perpendicularly under the figure you multiply by, and then add the feveral lines or products together which fo collected, gives the total product required, as in the examples following, viz.

Example.

How many is, or are, 23 times 7426? First, begin with the unit figure 2 in the multiplier, faying, 3 times 6 is 18, 8 (which I fet directly under 2, by which I multiply) and carry 1, then 2 times 2 is 6, and 1 is 7; then 2 times A is 12, 2 and carry I, then 2 times 7 is 21 and t is 22. And fo I have done with the first figure of the multiplier, viz. 3. Then I

go to the next, that is 2, and fay, twice 6 is 12, 2 and carry I (which 2 is placed in a direct line under 2 the

multiplying figure) then twice 2 is 4 and 1 is 5, then twice 4 is 8, and laftly twice 7 is 14, which I fet down. and I add the two products together, faying, 8 is 8, &c. and the total is the right and proper product or refult of the multiplication, viz. 170798,

10	
3297	070480

15728:

1379135 551654 1930789 2482443
275827
5440687575

4762

When cyphers are intermixt with figures in the multiplier then multiply by the figures as above; and when you come to a cypher in the multiplier, then fet down another cypher exactly and perpendicularly under it: then begin the multiplicand again with the next figure. to the cypher in the multiplier, and go through it in the fame line, placing the first figure of that product next to the cypher towards the left hand, but then heed must be taken, that the next figure or cypher of the next line must be fet down one degree farther towards the left-hand, and not immediately under the last figure fet down next to the cypher: as in the following examples may be fully understood,

24393 402		7854371 23604.	327496
87486 975720	471	1457484	9827580
9805986	2359 15728 	742	1975343580

When you have a cypher or cyphers in the multiplier, at the beginning towards the right hand; then fet it or them backwards from the place of units towards the right hand, and when you have multiplied by the figure or figures, annex the cypher or cyphers:

As in these examples : 4632 47962 2600 400 333349 19184800

9264 12043200

If you have cyphers in the units place, &c. both in the multiplicand and multiplier, then neglect the cyphers in both, and multiply by the figures, and annex as many cyphers to the total product as is the fum of the cyphers, both in multiplicand and multiplier.

As in thefe examples.

43600	42300 12000	376400 2400
852 852	846 423	15056 7528
9372000	507600000	903360000

When you are to multiply by 10, 100, 1000, or 10000, it is only adding or annexing for many cyphers, to the multiplicand, as is in the multiplier, that is, either 1, 2, 3, or 4 eyphers, and the work is done. Example, Suppole I am to multiply 375 by the sumbers above, if I multiply it by 1e, then Join to to 375, and then it makes, or the produce is, 3750: if by 1000, then I annex 00, and then it makes 37500: if by 1000, 1 pat to it coo, and then it produces 375000: and laftly, if by 10000, I then add 0000, and then it makes 3750000, &c. and thus may any number be multiplierd, when the multiplier confilts of an unit with any number of eyphers.

Suppose you want to know how many half crowns there are in 246l, you know that 8 half crowns make a pound, wherefore set them down thus:

Multiplied by 8 the half-crowns in a pound.

Answer 1968 the half-crowns in all.

Again, In 1968 half crowns how many pence? Multiply by 30 the pence in half a crown.

Answer 59040 pence in 1968 half crowns.

And this ferves to make out, that great denomination ons are brought into fmaller by this rule.

Admit you wanted to know the contents of a large table 34 feet long, and 4 feet wide.

Multiply 24 the length a the breadth, and the

Answer will be 126 square feet for the true contents of fuch a table.

Multiplication of money.

Multiplication of money (what most would learn above every thing) hath great affinity with addition of money, the fame method being taken in carrying one denomination to the next, viz. from farthings to pence. from pence to shillings, and from shillings to pounds. And as in addition (and other multiplications) you begin at the right hand, and proceed towards the left : fo here you begin at the least denomination, which is also at the right hand.

This method of accompting is the most apt and expeditious of all others, for fmaller quantities; and therefore extremely necessary in making bills of parcels, &c. And is beyond all contradiction, as fure and certain as any way whatfoever,

The general rule,

Is always to multiply the price by the quantity. The first step is, for quantities from 2 to 12, and this is done by one multiplier, as in the following example :

Example 1. What must I give for 6 pieces of cloth, if one cost al. 125. 6d.?

Multiply the price by

And the product is the apfwer, viz. 25 15

Fire I fay 6 times 6 is 26 pence, which is just 2, 1 fet down 0 in the place of pence, and carry 3r to the place of hillings, exactly the fame as in addition of money; then 6 times 12 is 72, and 2 is 75, or 3/. 15r, wherefore I fet down 15 in the place of hillings, and carry 3 to the pounds; then 6 times 7 is 42 and 3 is 45f. So the whole amount of the cloths, at 71 12.6 d. per piece, is 45f. 15r. as in the work, and very concile.

Questions proper for this Rule.

Question 1. What is the contents of a square piece of ground, whose length is 28 perches, and breadth 13 perches?

Answer, 364 square perches: for multiplying 28 the length by 13 the breadth, the product is so much.

Question 2. There is a square battle, whose stank is 47 men, and the files 19 deep; what number of men doth that battle contain? Facit 893: for multiplying 47 by 19, the product is 893:

Question 3. If any one thing cost 4 shillings, what shall 9 things cost? Answer, 36 shillings: for multiply

4 by 9, the product is 36.

Queltion 4. If a piece of money or merchandize be worth or colt 17 fuillings, what shall 19 such pieces of money or merchandize colt? Facit 323 shillings, which is equal to 161 31.

Question 5. If a foldier or fervant get or spend 14s, per month, what is the wages or charges of 49 soldiers or servants for the same time? Multiply 49 by 14, the

product is 686s, or 34/6s for the answer.

Oueflion 6. If in a day there are 24 hours, how many hours are there in a year, accounting 36 days to conflitute the year? Facis 8760 hours to which if you add the 6 hours over and above 365 days, as there is in a year, then it will be 8765 hours. Now, if you multiply this 8766 by 60 you have the number of minutes in a year.

Division of whole numbers.

In Teifon is the feparating or parting of any number or quantity given, into any parts affigned; or to find how often one number is contained in another; or from any two numbers given, to find a third, that finall confil of fo many units, as the one of those two given numbers is comprehended or contained in the other.

2. Division hath three parts or numbers remarkable, viz. first, the dividend; fecondly, the divisor; shirdly, the quotient. The dividend is the number given to be parted or divided. The divisor is the number given by which the dividend is divided; or it is the number which sheweth how many parts the dividend is to be divided into. And the quotient is the number produced by the divisor of the two given numbers, the one by the other.

So 12 being given to be divided by 3, or into three equal parts, the quotient will be 4, for three is contained in 12 four times; where 12 is the dividend, and 3 is the divifor, and 4 is the quotient.

3. In division fet down your dividend, and draw a crooked line at each end of it; and before the line at the left hand place the divisor, and behind that on the right hand place the figures of the quotient,

as in the margin; where it is required to 3) 12 (4

divide 12 by 3. First, I fet down 12 the dividend, and on each side of it do I draw a crooked line, and before that on the left hand do I place 3 the divisor. Then do I seek how often 3 is contained in 12; and because I find it 4 times, I put 4 behind the crooked line on the right hand of the dividend, denoting the

quotient.

4. But if when the divifor is a fingle figure, the dividend conflicts of two or more places; then, having placed them for the work, as is before directed, put a point under the first figure on the left hand of the dividend, provided it be bigger than, or equal to the dividend, provided it be bigger than, or equal to the dividend provided figure from the left hand of the dividend which fluerce, as far as the point goeth from the left hand of the dividend which fluerce, as far as the point goeth from the left

hand, are to be reckoned by themselves, as if they had no dependence upon the other part of the dividendand, for distinction's sake, may be called the dividual. Then afk how often the divifor is contained in the dividual, placing the aniwer in the quotient. Then multiply the divisor by the figure that you placed in the quotient, and fet the product thereof under your dividual. Then draw a line under the product, and fubtract the faid product from the dividual, placing the remainder under the faid line. Then put a point under the next fioure in the dividend on the right hand of that to which you put the point before, and draw it down, placing it on the right hand of the remainder which you found by fubtraction, which remainder, with the faid figure annexed to it. shall be a new dividual. Then feek again how often the divitor is contained in this new dividual. and put the answer in the quotient on the right hand of the figure which you put there before. Then multiply the divisor by the last figure that you put in the quotient. and fubscribe the product under the dividual, and make fubtraction, and to the remainder draw down the next figure from the grand dividend, (having first pus a point under it.) and put it on the right hand of the remainder for a new dividual, as before, &c. and proceed thus tillthe work is finished.

Observe this general rule in all kinds of division.

Firlt, To feek how often the divifor is contained in the dividual. Then, having put the answer in the quotient, multiply the divifor thereby, and fubrach the product from the dividual. An example or two will make the rule plain. Let it be required to divide 218, by 6. I dipose the numbers given as is before directed, and as you fee in the margin, in order to the work.

Then because 6 the divisor is more than 6)2184(3 2 the first figure of the dividend, I put a

point under I the fecond figure, which makes

21 for the dividual. Then do I alk how often 6 the divifor is contained in 21, and because I can-

not have it more than 3 times, I put 3 in the 6)2184(3 quotient, and thereby do I multiply the divifor (6) and the product is 18, which I fet in

order under the dividual, and subtract it there-

from, and the remainder (3) I place in order under the line, as you fee in the margin.

Then do I make a point under the next figure of the dividend, being 8, and draw it down, annexing it to the remainder 3; fo I have 38 for a new dividual. Then do I feek how often 6 is contained in 38; and because I cannot have it more than 6 times, I put 6 in the quotient; and thereby do I multiply the divisor (6) and the product (36) I put under the dividual

duct (36) I put under the dividual (38), and subtract it therefrom, and the remainder (2) I put under the line, as you see in the margin.

Then do I put a point under the next (and laft) figure of the dividend, (being 4), and draw it down to the remainder (4); and putting 6)2184(364) it on the right hand thereof, it maketh 24 for a new dividual. Then I feek how often 6 is contained in 24; and the another of the second of the second

it on the right hand thereof, it maketh 2g for a new dividual. Then I feek how often 6 is contained in 2g; and the answer is 4, which I put in the quotient, and malitiply the divifor (6) thereby, and the prodef (2g) I put under the dividual (2g), and libtract it therefrom, and the remainder is o. And thus the work is finished; and I find the quotient to be 364; that is, 6 is contained in 2184 just 364 times, or 2184 being divided into 6 equal parts, 364 is one of those parts.

Again, if it were required to divide 2646 by 7, or into 7 equal parts, the quotient will be found to be 378; as appeareth by the operation on the margin.

7)	2646 (378
"	

24

24

6) 2184 (26

26

54	
	56
	56

ARITHMETIC

So if it were required to divide 046 8) 946 (118 by 8 the quotient will be found to be Tr8, and 2 remaining after division is ended. The work appeareth on the margin.

Many times the dividend cannot be exactly divided by the divifor, but fomething will remain; as in the last example, where 046 was given to be divided by 8, the quotient was 118, and there remaineth 2 after the divifion is ended. Now what is to be done in this cafe with the remainder, the learner shall be taught when we come to treat of the reducing (or reduction) of frace tions.

And here note, that if, after your division is ended. any thing do remain, it must be less than your divisorfor otherwife your work is not rightly netformed.

Other examples are as follow.

8)73464(9183	9)13758(152
72	9
14.	47 45
66 64	25 18
24 24	78 72
(0)	(6)

g. But if the divider confilicth of more places than one, then chuse fo many figures from the left side of she dividend for a dividend for a dividend for a dividend for a dividend the state of the divider and put a point under the farthelf figure of that dividual to the right hand, and feek how often the fift & gure on the left side of the divider is contain d in the fift figure on the left side of the divider, and place the answer in the quotient, and thereby multiply your divider, placing your product under your divided, and shorted it therefrom, placing the remainder below the line. Then put a point under the next sigure in the dividend, and draw it down to the faid remainder and annex it on the right side thereof, which makes a new dividual, and proceed as before, till the work is similab.

And if it to happen, that, after you have chofen your first dividual as is before directed, you find it to be laft than the divifor; then put a point under the figure more near to the right hand, and feek how often the first fingure on the left side of the divifor is contained in the two first figures on the left side of the dividual, and place the answer in the quotient, by which multiply the dividual, and place the product thereof in order under the dividual, and by the side of the product the content of the product the conten

before.

Always remembering, that in all cafes of division, if, after you have multiplied your divisor by the figure first placed in the quotient, the product be greater than the dividual, then you mult cancel that figure in the quotient, and, inflead thereof, put a figure lefs by an unit, (or one) and multiply the divisor thereby: and if full the product be greater than the dividual, make the figure in the quotient lefs by an unit. And thus do, until your product be lefs than the dividual, or at the most equal thereto, and then make fubbraction, &c.

So, if you would divide 9464 by 24, the quotient will be found to be 394. I first put down the given number, as is before directed in the third rule. Now, because my divisor 24)9464

confillent of two figures, I therefore put a point under my fecond figure from the left hand of my dividend, which is 4; wherefore I feek how often 2 (the first fi-

22

gore on the left fide of the divifor is contain'd in 9 (the like first in the dividual) the answer is 4; which I put in the quotient, and thereby multiply all the divisor, and find the product to be 96, which is greater than the dividual; wherefore I cancel the 4th the quotient, and, instead thereof. I put 3 (an unit Lefs) and by it multiply the divisor 24, and the product is 72; which I subtract from 94 the dividual, and the remainder is 22. Then do I make a point under the next sigue 6 in the dividual, and they remainder 22, and it in product is 72; which I subtract from 94 the dividual, and the remainder is 22. Then do I make a point under the next sigue 6 in the dividend, and draw it down, and place it on the right side of the remainder 22, and it makes 226 for a new dividual. Now, because the dividual 226 consistent of a figure was the table shifter thereof to the

more than the divifor, therefore I feek how often 2 (the figure of the divi for) is contained in 22, the two fifth of the dividual: I fay 0 times: wherefore I put o in the quotent, and thereby multiply the divifor 24; the product (216)

the dividual: I lay 9 times: wherefore I put 9, in the quotent, and thereby multiply the divilor 24; the product (216) I place under the dividual 226, and fubtract from it, and there remaineth 10. Then I go on, and make a point un-

Then I go on, and make a point under the next and lait figure (4) in the

dividend, and draw it down to the remainder 10, and it makes 104 for a new dividual: which is also a figure more than the divisor: and therefore I seek how often 2 is contained in 10: I answer 5 times.

2 is contained in 10.21 aniwer 5 times. But multiplying my dividor by 5, the product is 120; which is greater than the dividual 2 and therefore I make it but 4: and by it multiply the divifor, and the product is 56, which being placed under, and fubtracted from the dividual, there remaineth 8. And thus the whole work of divition is inified; and I find, that 0464 being divided by 24, or into 24 equal parts, is found to be 394, as was faid before, and the remainder is 8; as you fee in the work on the margin.

4) 9464 (

Another example may be this. Let there be required the quotient of 1183653 divided by 385. First 1 difpose of the numbers in order to their dividing; and because 118, the three first figures of 385) 1183653 (2 the dividend, is less than the divisor 285. I therefore make a point under the fourth figure which is 2, and fee how often 3 (the first figure of the

divifor) is contained in II: the anfwer is 2, which I put in the quotient, and thereby mulriply the divisor 285, and the product is 1155, which I fubtract from the dividual 1182, and there remains 28; Then, as before, draw down the next figure, which is 6. and place it before the remainder 28: fo have I 286 for a new dividual; and because it

hath no more figures than the divi- 285) 1182652 (20 for. I feek how often 2 (the first fioure in the divisor) is contained in 2 (the first figure of the dividual) and the answer is o: for a greater number cannot be contained in a

leffer: wherefore I put o in the quotient: and thereby (according to the 5th rule) I should multiply my divifor: but if I do, the product will be o; and o fubtracted from the dividual 286, the remainder is the fame.

Wherefore I draw down the next figure (5) from the dividend, and 285)1182653 (207 put it before the faid remainder 286: fo have I 2865 for a new dividual; and because it consisteth of four places, viz. a place more than the divifor, I feek how often 3 (the first figure of the divisor) is contained in 28 (the two

first of the dividual) and I sav

2605

there is a times three in 28; but multiplying the whole divisor (285) thereby, I find the pruduct to be 3465. which is greater than the dividual 2865 : wherefore I chuse 8, which is less by an unit then o; and thereby I multiply the divisor 285, and the product is 3080, which is still greater than the faid dividual : wherefore I chuse another number yet an unit less, viz. 7. and having multiplied my divifor thereby, the product is 2695; which is less than the dividual 2865; wherefore I put 7 in the quotient, and fubiract 2695 from the

dividual 2865, and there remains 170. Then I draw down the last figure (3) in the dividend, and

figure (3) in the dividend, and place it before the faid remainder 1700, and it makes 1703 for a new dividual. Then (for the reafon a bove faid) I feek how often 3 is contained in 17: the answer is 5, by multiplying the divisor thereby, the product is 1925 greater than the dividual, wherefore I fay it will bear 4, an out 1658, and

) 1	18	36	53	(30	74
		11	55		
			36		

by it I multiply the divifor 385, and the product is 1540, which is left stan the dividuals, and therefore 1 put 4 in the equotient, and fubrica? the faid product from the dividual, and there remaineth 163. And thus the work is finished, and 1 find that 1183653 being divided by 385, or in 385 equal shares or parts, the quotient or one of those parts, is 3074, and befides there is 165 remaining.

And thus the learner being well verfed in the method of the foregoing examples, may be fufficiently qualified for the divition of any greater fum or number, into as many parts as he pleafeth, that is, he may underfland the method of dividing by a divitor that conflicth of 4, 5, or 6, or any greater number of places, the method being the fame with the foregoing examples in every refpect.

Other examples in division.

27986)835684790(29860 196374)473986018(2413

55972	392748	
275964 251874	812380 785496	
240907	26884I 196374	
170199	724678 589122	

Remains 22830

Remains 135556

So if you divide 47386473 by 58736, you will find the quotient to be 806, and 45257 will remain after the work is ended.

In like manner, if you would divide 3846739204 by 482064, the quotient will be 7963, and the remainder

after divition will be 100572,

When the divisor is 3, 4, 5, 6, or more figures, there is a fore and easy way of personning the work truly, by making a table of the divisor, which may be done by addition, or multiplying the divisor by 2, 3, 4, &C.

Admit you are to divide 987654321 by 123456-

123456)987654321(8000 987648***

Here having noted the number of figures in the divifor, which here is fix, I make a point under the feventh figure, or place of the dividend, &c.

I:	123456	
2:	246912	This table is made by doubling the
3	370368	first line, which is 246912, which added to the first or uppermost line, gives the third line 270368, which also added
4	493824	to the first line makes 493824 for the
5.	617280	fourth line or product, and so of the rest, still remembering to add the subse-
6	740736	quent line, till you come to the last line of 9 times, which is 1111104. The truth
7	864192	of which may be proved by multiplying the first or uppermost line by 2, 3, 4, 5,
8	987648	&c. and if you commit an error by ad- dition it may be found out, or corrected
9	1111104	by multiplication.

The use of the faid table.

When you have pointed out your number of places in the divided, call your cye on the table, and at the first view you may know how many times you can take, as in this example, y times is too little, and y times too much, wherefore I fet down 8 in the quotient, and then multiply and subtract, and the remainder is 6, to which I bring down 2, and place another o in the quotient, then to the 631 bring down 2, and place another o in the quotient, then to the form of the subtract of the subtract

Abbreviations.

(1st.) If there are any cyphers on the right hand no your divifor, you may cut off so many cyphers, or fources, on the right hand of your dividend, but remember to bring them down (if figures) to the remainders

(2dly.) By the foregoing rule you may observe, that to divide by 10, 100, 1000, &c. is only to cut so many figures from the right hand of the dividend, as there are cyphers in the divisor.

Example. 1000)436821735)

So the quotient is 43682, the remander 735.

(3dly.) When your divisor is 12, or confifts only of one fingle figure, or can be reduced to one by cutting

off cyphers from its right hand, the work may be casily performed in one line, thus:

Rule.

Drawing a line under the dividend, fet down under its fiff figure, how often the dividor is contained it it? what remains imagine placed before the next figure, and, confidering how often your dividor is contained in the fum it makes, fet down the number underneath as before, and to proceed through all the figures, fet down what remains at laid, in the place where your quotient ufed to fland.

4)93645(1	Examples, 12)83675(11	7100(5635)15
-		
23411	6972	805

If you are to divide feveral numbers by one common divide (as in the calculating of tables, &c.) that you may know exactly at once how often your divifor will go, in fome convenient corner make a table of your divifor, by multiplying it feverally by all the nine digits, thus, fuppode 562 your divifor:

562	1
1124	2
1686	3
2248	4
2810	5
3372	6
3934	7
4496	8
5058	0

Proofs of division.

(1st.) Multiplication and division mutually prove each other: for as if you divide the product of a multiplication by the multiplier, the quotient will be the multiplicand: fo if you multiply the quotient of a division by the divisor (taking in the remainder) the product will be the dividend. (2d/s). Another proof of division is, by adding together those lines in the following example, marked with afterisms (being the particular products of the divisor, multiplied severally by each figure in the quotien, together with the remainder of the division) the total of

which, if right, will be the dividend.

(3d/s). Divition may also be proved as multiplication, by a crofs, thus; calling out the nines from the divisor, and quotient, place the remainders on its right and left fides, then multiplying the two figures so placed together and casting the nines from the product, and what's left to the remainder of the division, and fill casting out the nines, let the overplus be placed at the top; then also casting the nines from the dividend, fet down the figure remaining at the bottom, which if it agrees with that at the top, the work may be supposed right. See each proof in the following

	Exam	ple.
	736)863256(1172
	736*	736
	L'adelinate statement	Dall State S
	1272 -	7032
3	736*	3516
7-1-2	Cott Common State	8204
	5365	In the second to second William
3	5152*	862592
ad Proof	riban the late ball	664 Remainder
	2136	10 SUP 121
	1472*	, 863256 1ft Proof.
	Charles and aller	
	664*	
	862256 2d 1	and part one fidulate to

803250 2d Proo

REDUCTION.

1 R Eduction is that which brings together two or one denomination; or it ferveth to change or alter numbers, money, weight, measure, or time from one denomination to another; and likewife to abridge fractions to the lowel terms; all which it doth fo precifely, that the field proportion remaineth without the least jot of error or wrong committed: fo that it belongeth as well to fractions as integers; of which in its proper place. Reduction is generally performed either by multiplication or division. From whence we may gather, That,

2. Reduction is either descending or ascending.

2. Reduction descending is, when it is required to reduce a fum or number, of a greater denomination into a leffer, which number, when it is fo reduced, shall be equal in value to the number first given in the greater denomination : as if it were required to know how many shillings, pence, or farthings, are equal in value to an hundred pounds? or, how many ounces are contained in at hundred weight? or, how many days, hours, or minutes, there are in 240 years? &c. And this kind of reduction is generally performed by multiplication, 4. Reduction afcending is, when it is required to re-

duce or bring a fum or number of a smaller denomination into a greater, which shall be equivalent to the given number; as suppose it were required to find how many pence, shillings or pounds, are equal in value to 42785 farthings? or how many hundreds are equal to. or in, 3748 pounds, &c. And this kind of reduction is

always performed by division.

5. When any fum or number is given to be reduced into another denomination, you are to confider whether it ought to be refolved by the rule descending or ascending, viz. by multiplication, or divition. If it be to be performed by multiplication, confider how many parts of the denomination into which you would reduce it, are contained in an unit or integer of the given number. and multiply the faid given number thereby, and the product thereof will be the answer to the question. As if the question were, In 38 pounds how many

shillings? Here I consider, that in one pound are 20 shillings, and that the number of shillings in 38 pounds, will be 20 times 38; wherefore I multiply 381, by 20, and the product is 760, and fo many shillings are contained in 381, as in the margin.

But when there is a denomination or denominations between the number given and the number required. you may, if you please, reduce it to the next inferior denomination, and then into the next lower than that,

&c. until you have brought it into the denomination required. As for example: let it be demanded. In 132 pounds how many farthings? First, I multiply 122 (the number of pounds given) by 20 to bring it into flullings, and it makes 2610 fallings. Then do I multiply the shillings 2640 by 12 to bring them into pence, and it produceth 31680. and fo many pence are contained is 2640 flillings, or 132 pounds. Then do I multiply the pence, viz.

31680 by 4, to bring them into 126710 farthings farthings, (because 4 farthings is a

penny) and I find the product thereof to be 126720. and fo many farthings are equal in value to 132 pounds.

132 pounds

The work is manifest in the margin. 6. And if the number propounded to be reduced is to be divided, or wrought by the rule afcending, confider how many of the given numbers are equal to an unit or integer in that denomination to which you would reduce your given number, and make that your divisor,

and the given number your dividend; and the quotient thence arising will be the number sought or required. As for example : let it be required to reduce 2640 shillings into pounds. Here I confider that 20 shillings are equal to one pound; wherefore I divide 2640, the given number, by 20, and the quotient is 132, and fo mamy pounds are contained in 2640 shillings. In reduction descending and afcending, the learner is adwifed to take particular notice of

the tables delivered in the former part of this book, where he may be informed what multipliers or divifors to make use of in the reducing of any number to any o-M 2

ther denomination whatfover, especially English monles, weights, measures, time, and motion. But in this place it is not convenient to meddle with foreign coins,

weights, or measures.

But if in reduction afcending it happen that there is a denomination, or denominations between the number given and the number required, then you may reduce your number given into the next fuperior denomination, and when it is fo required, bring it into the next above that, and fo on, until you have brought it into the deno-

mination required. As for example ;

Let is be demanded, In 126720 farthings how many pounds? First I divide my given number, being farthings, by 4, to bring them into pence, because 4 farthings make one penny; and there are 31680 pence. Then I divide 31680 pence by 12, and the quotient giveth 26,0 faillings. And then I divide 2660 faillings by 20, and the quotient giveth 136/x which are equal in value to 126720 farthings. See the work.

4) 126720	(31680	(264lo	(132
12	24	2	
6	76 72	6	
27 24	48	4 4	
32 32	(0)	(0)	
(0)			

7. When the number given to be reduced, confifeth of divers denominations, as pounds, faillings, pence, and farthings, or of hundreds, quarters, pounds, and ounces, &c., then you are to reduce the highelt, or greateft denomination into the next inferior, and add thereunto the number flanding in that denomination, which your greateft or highelf number is reduced to. Then reduces

that fum into the next inferior denomination, adding thereto the number standing in that denomination. Do

fo until you have brought the number given into the denomination proposed. As, if it were required to reduce \$\frac{1}{4}\$. If it were required to reduce \$\frac{1}{4}\$. It as, roof, and pence inful \$\frac{1}{4}\$. It as, roof, and the product is \$\frac{1}{4}\$ of fullings, by multiplying it by \$20,\$ and the product is \$\frac{1}{4}\$ of fullings, and they make \$\frac{1}{2}\$. Then I multiply, \$\frac{1}{2}\$ to \$\frac{1}{4}\$ to bring the fullings into pence, and they make \$1656, to which I add the \$150, to \$1650, to \$

1946 973 11676 pence

Sum 11686 pence 8. If in reduction afcending, after divition is ended, any thing remain, fuelt remainder is of the fame denomination with the dividend.

Example. In 4783 farthings, I demand how many pounds? View the following operation.

First, I divide

the given number of farthings, viz. 4783, by 4, to bring them into pence, and the quotient is 1195 pence, and there remaineth 3 after the work of division is ended, which is 3 farthings.

Again, I divide 1195 pence, the faid quotient, by 12 to reduce 'em 4) 4783 (1195 (99 (4 pounds-4) 108 8 7 115 19 fhillings

4 108 38 Rem. 7 pence 36

23 Facit 4 19

3 farthings remains.

into shillings, and the quotient is 99 shillings, and there

is a remainder of 7, which is 7 pence. "

And then divide 99 fhillings (the last quotient) by 20, to bring it into pounds, and the quotient is 41, and there remaineth 19 shillings; so that I conclude that in 4783 (the proposed number of farthings) there is 41 101 74 2011.

More examples in the reduction of coin.

Quest. In 438% how many shillings? Facit 8760 shillings; for multiplying 438 by 20, the product amounteth to so much. See the work.

438 pounds 20 Facit 8760 (hillings

Queft. In 467l how many pence? First multiply the given number of pounds (467) by 20, to bring it into shillings; and it makes 9340 shillings, then multiply the shillings by 12, and it produceth 112080 pence, thus,

Facit 112080 pence

Or it may be refolved thus, viz. Multiply the given number of pounds (467) by (240) the number of pence in a pound, and the product is the fame, viz. 112080 pence, as by the operation appeareth

467 pounds 240 1868 934

Facit 112080

Quest. In 5672 l. how; many farthings? First multiply the given number by 20, to bring it into shillings, and it produceth 113460 shillings, then multiply that product by 12, to bring it into pence, and it produceth 1261520 pence, then, lattly, multiply the pence by A. and it produceth 5446080 farthings. See the operation

Ci.	139
5673	pounds
20	9.25
-	
11346	Chillings
12	mann 83
12	
-	
22692.	
11346	

1361520 pence Facit 5446080 farthings

Or this question might have been thus refolved, viz. Multiply 5672 (the given number of pounds) by 960 (the number of farthings in a pound) and it produceth the fame effect; as you fee by the work,

5673 pounds 20 fhillings 240 pence 51057 Facit 5446080 060

Otherwise thus, First bring the given number 5672 ! into shillings, and multiply the shillings by 48, the number of farthings in a shilling, and the same effect is thereby likewise produced, viz.

Facit 5446080 farthings.

These various ways of operation are expressed to inform the judgment of the learner with the reason of the rule. More ways may be shewn, but these are sufficient even for the meanest capacities.

Queft. In 4581. 16s. 7d. 3 qts. how many far-things? To refolve this queftion, confider the feventh rule, and work as you are there directed, and you will find the forefaid given numbers to amount to 410479 Larthings, viz.

This laft question, or any other of this kind, viz. where the number given to be reduced consistent of several denominations, may be much more concisely resolved this way, viz. When you multiply the pounds by 20, to bring them into shillings, to the product of the first figure add the figure standing in the place of units in the denomination of shillings: but because the first several the season of the se

1. s. d. qrs
458 16 7 3
20
9176 fhillings
12
18359
9176
110119 pence
4.

Facit 440470 farthings

multiplier is o. I fay, o times 6 is nothing, but 6 is 6. which I put down for the first figure in the product. Then because the multiplier is o. I so no further with it, for if I should, the whole product would be o; but proceed. And when I come to multiply by the fecond figure in the multiplier, to the product of it I add the figure flanding in the place of tens in the denomination of shillings, which is I; faying, 2 times 8 is 16, and (the faid figure) 17. Then I fet down 7, and carry the unit to the product of the next figure, as has been directed before. So that now you may have the whole product and fum of shillings at one operation, which is the fame as before. And when you multiply the shillings by 12, to bring them into pence, after the famo manner, add to the product the number flanding in the denomination of pence; and fo when you multiply the pence by 4, to bring them into farthings, add to the product the number standing under the denomination of farthings. See the last question thus wrought on the margin of the preceding page.

Reduction of troy weight.

We now come to give the learner some examples in troy weight, wherein we shall be brief, having given so large a tatle of reduction in the former examples of coin. And now the learner mult be mindful of the table of troy weight delivered in addition.

Quest. In 482 lb. 7 oz. 13 pw. 21 gr. how many grains?

Multiply by 12, by 20, and by 24, taking in the figures flanding in the feveral denominations, according to the directions, given formerly and, you will find the product to be 2780013 grains, which is the number required, or answer to the question. See the whole work as followeth,

I. oz. pw. gr.
. 482 7 13 21
12
971
482
5791 ounces
20
115833 penny wt.
24,
463333
231668
231000

Facit 2780013

Quest. in 2780013 grains, I demand how many lb. oz. pw. gr. ?

This is but the foregoing question inverted, and is resolved by dividing by 24, by 20, and by 12, and the

aniwer is 482 lb.	. 7 oz. 13 pw. 21	gr.	
	210	12	
24)2780013	(11583]3	(5791	(482
*****		1 10 10 11	
24	10	48	
		-	
38	15	99-	
34	14	96	
processing .	-		
140	18	31	
1.20	18	24	
		T)	
200	3 2	Rem. 7 oun	ces.
192	2		
81	D	anciale .	
	Rem. 13 penny	weight.	
72			
	15 6	z. pw. gr.	
93	Facit 482		
72			

Remains 21 grains.

Reduction of avoirdupois weight.

In reducing of avoirdupois weight, the learner must have recourse to the table of avoirdupois weight delivered before.

Quest. In 47 C. 1 qr. 20 lb. How many ounces? Multiply by 4, by 28, and by 16, and the last product will be the answer, viz. 84992 ounces.

C. qr. lb. 47—1—20

32872 5312

Facit 84992 oz.

Quest. In 84992 ounces, I demand how many C. qrs. lb. and oz.?

This is the foregoing question inverted, and will be

This is the foregoing question inverted, and will be resolved if you divide by 16, by 28, and by 4, and the answer is 47 C. 1 qr. 20 lb. equal to the given number

32

Reduction of liquid measure.

Quest. In 45 tuns of wine, how many gallons? Multiply by 4 and 63, the product is 11340 gallons for the answer.

Facit 11340

Quest. In 34 rundlets of wine, each containing 18 gallons, I demand how many hogsheads?

First, sind how many gallons are in the 34 rundlets, which you may 60 if you multiply 34 by 18, the content of a rundlet, and the product is 612 gallons, which you may reduce into hogheads, if you divide them by 63, and the quote will be 9 hogheads, and 45 gallons. See the wark

Facit 9 hhds. 45 galla

Quest. In 12 tuns, how many rundlets of 14 gallons per rundlet?

Reduce your tuns into gallons, and divide them by 14, the gallons in a rundlet, and the quotient, 216, is your answer. See the work.

28 22 14 84 84 Facit 216 rundlets.

Reduction of long measure.

Quest. I demand how many furlongs, poles, inches, and barley-corns will reach from London to York, it being accounted 151 miles.

131 miles 8 furlongs in a mile 1208 furlands 40 poles in a furlong 48220 poles 11 half yards in a pole 4832 4822 521520 half vards 18 inches in a half yard 425216 52152

9567260 inches 3 barley corns in an inch

28702080 Answer.

Quelt. The circumference of the earth (as all other circles are) is divided into 360 degrees, and each degree into 60 minutes, which, upon the superficies of the earth, are equal to 60 miles; now I demand how many miles, furlongs, perches, yards, feet, and barley corns, will reach round the globe of the earth ?

360 degrees 60 minutes or miles in a degree

21600 miles about the earth 8 furlongs in a mile

8 furlongs in a mile

172800 furlongs about the earth 40 perches in a furlong

6912000 poles or perches about the earth
11 half yards in a perch

6912

2) 76032000 half yards about the earth

(38016000 yards, viz. the half yards dividby 2

114048000 feet about the earth

228006

1368576000 inches about the earth
3 barley corns in an inch

Facit 41057280co barley corns

And so many will reach round the world, the whole being 21600 miles. So that if any person were 10 go round, and go 15 miles every day, he would go the whole circumference in 1440 days, which is 3 years 11 months and 15 days.

Reduction of Time.

Quest. In 28 years, 24 weeks, 4 days, 16 hours, 30 minutes, how many minutes?

ARITHMETIC

Years, weeks, days, hours, minutes. 28-24-4-16-30 52 weeks in a year,

60 1480 weeks. 1026A days. 41462

20720

248752 hours, 14925150 minutes.

Note. That in refolving the last question after the method expressed, there are lost in every year 30 hours ; for the year confifteth of 365 day and 6 hours; but by multiplying the year by 52 weeks, which is 364 days, you lose one day and 6 hours every year. Wherefore, to find an exact answer, bring the odd weeks, days and hours, into hours, and then multiply the year by the number of hours in a year, viz. 8766, and to the pro-

duct add the hours contained in the odd time, and you have the exact time in hours; which bring into minutes See the last question thus resolved. as before. Days, hours. Weeks, days, hours.

8700	1		ALEX.	
172	1466	mule start	172	
172	730		24	
197	-			
228	87661	hours in a y.	694	
			345	
249592	hours		TOTAL STREET	
60		1 80777	4144	- 400
149755	o min, in 2	B years, and	4144	hours.

So you fee, that, according to the method first used to refolve this question, the hours contained in the given time, are 248752, but according to the last, best. or truest method, they are 249592, which exceeds the

former by 840 hours.

But for most occasions it will be sufficient to multiply the given years by 265, and to the product add the days in the odd time, if there by any, and then there will be only a loss of 6 hours in every year, which may be supplied by taking a fourth part of the given years, and ading to the contained days, and you have your delire.

The Golden Rule, or Rule of Three Direct

TS fo called from its extraordinary ufefulness, not only in arithmetical questions, but in all parts of the

mathematics.

It is also called the rule of three, because there are always three numbers given to find out a fourth; and it is properly called the rule of proportion, because the first number bears fuch proportion to the fecond, as the third does to the fourth.

The design of this rule is, to shew how to find a fourth proportional number, by having three given numbers, which is deducible from the fixteenth proposition of the.

fixth book of Euclid's elements.

The Rule is.

Multiply the fecond and third numbers together, and divide the product by the first number, and the quotient

thence arifing is the fourth number fought. Or.

Divide the fecond number by the first, and multiply the quotient by the third, and the product is the number required; for the fourth number contains the third fo often as the fecond contains the first. And this is called direct proportion,

All questions in this rule of three consist of three numbers, whereof two are always of one kind or denomina-

tion. As in this example.

If I give 10s, for 5 yards, what shall I give for 15 yards at the same rate?

Now two of these are of the same kind, that is, the number 5 and 15, which are both yards, which place thus. The number concerning which the question is asked, must be in the third place.

Now in this question the 15 yards is the number, and

it therefore in the third place.

Then feek out the other number of the fame kind or denomination, which must be yards also, which in this question is 5; feet this in the first place, and then the other number, that is 10x, will consequently claim the second place, and the answer to the question will be always of the same denomination with it, which here is fillillings.

Now the quellion stated according to the Toregoing

rule stands thus,

If 5 yards coft 101. what will 15 yards coft?

Multiply the fecond number by the third, and divide the product by the first.

Note, That the three numbers are 5, 10, 15.

Proof of the last question.

What shall I pay for 5 yards, when 15 yards are fold for 30r.?

What is the interest of 75 pounds at the rate of 81. per cent, per annum ?

The numbers will be stated thus.

In this example there are two numbers that are principal money, and one that is interest, therefore the interest (according to the rule) must stand in the middle. or fecond place, the principal on which the interest dependeth, viz. 100/. (8 being the interest thereof) must stand in the first place towards the left hand, and the other principal on which the fourth number (which is the number fought for) dependeth, must posses the first place towards the right hand,

By thefe rules foregoing, you may with eafe and certainty perform any operation in direct proportion, and for your further information take the examples following.

Example. If the interest of 100/, for one year be 8/. what is the interest of 75%, for the same time?

1100)6100(6/ Answer.

Example. If 32 rundlets of brandy cost 96/, what will rundlets colt at that rate ?

Run. L. Run. Com and W Colo

Example. If 12 bags of cotton wool celt 148/. what, will 17 bags coft?

72
8 pounds remain
20 fulllings multiply,
12)160(13 fulllings

4 fhillings remain
12 pence multiply
12)48(4 pence

o remains

Note, That in the last example, when any thing remains that is reducible to a lower denomination, after it is so reduced, it must be divided continually by the first number.

Cafe.] When any of the three given numbers hap-

pen to be of divers denominations

Rule.] You may reduce them into the lowest denomination. And if your first number require to be reduced, you third must be reduced, likewise into the same denomination as the first: for the first and third numbers before you begin your operation, must be always of one name or denomination.

Example. If 17 hogheads of fugar cost 3201, 12 s. what will 5 of these hogheads be worth?

15 shillings remain multiply

17) 180(10 pence
10 pence remain
4 farthings 14. } multiply

17)40(2 farthings

6 farth, remain to be divided

Note, That when you have moltiplied the fecond and third numbers together, and divided the product by the first, the quotient is of the same denomination as the second number is, after you have reduced it (as in the last example) into its lowest denomination given.

Example. If 4 C 1 qr 24 lb of fugar cost 14 l. what will 18 C cost?

```
ARITHMETIC.
354
      I 24
                     18
  42
                    18
                   18
 45
                  2016 lb of fugar } multiply
 soo lb of fugar
                    14 l. sterling
                  8064
                  2016
             5100) 282124 (56 8 11 240
                  224 pounds remain } multiply
                     20 shillings in 1 l.
             5100 (44180 (8 shillings
                   480 millings rem. multiply
                    960
                    260 pence remain multiply
```

5]00)10]40(2 qrs

40 farthings remain to be divided by 500.

Note further, That what farthings remain, to be divided by the common divifor (as in the last example) because you can reduce them into no lower denomination, you may place them over your divisor, as fractions of a farthing, which shall be explained when we come to treat of vulgar fractions, &c.

Case.] When the first number of the three given, is but an unit, the operation is performed by multiplicati-

on only.

Example. If I give 15 s. for a pound of thread, what will 250 lb. coft at that rate?

3750 s. answer, or 1871. 10 s. Example. At 141. 10s. 6 d. per bag of hops, what

191730 pence anf. or 7981. 178. 6d. Cafe.] When the third number of the three given,

or that towards the right hand, is an unit, fuch operation is performed by division only; if the number need no reducing.

Example: If the pieces of broad cloath cost 590 by

what will one piece doft?

Af one bushel of tye cost 3s. 6d. what will a last or 10 quarters cost after that rate?

First reduce the 3s 6d into pence, that is 42d and the 10 quarters into bushels, that is 80, and set the question thus:

If I bushel cost 42d, what will 80 cost?

The first number or place being 1, will neither multiply nor divide, then bring the 3360d into shillings by dividing by 12 as followeth.

(141.

12)3360(28	o shillings	20)2810
2.4	N. W. Change	20
96	TY Security Con-	80
0 460	mbg adv gr	0

For the proof of this, and the like quellions, reduce the answer into 280 pence, to know whether 12 your work be right, as appears in the work. 2260

If I paid 4321. for 523 quarters of malt, what is the price of I quarter after that rate?

Which being stated stands thus;

If 525 quarters cost 432 l. what will I quarter cost? In this question you cannot multiply the second number by the third, because the third number, or place, is

but one.

Therefore to perform this question with ease, reduce 4321, into farthings by reduction, which makes 44720 farthings to be divided, which divide by 525, the quarters of malt, and the quotient, the answer is 789 farthings; the remainder after the division is ended are but the parts of a farthing.

Lailly, The 789 farthings being reduced are 16 s. 5½ d. Therefore, if 259 quarters of main, or todds of wool or goods, be fold for 432d, one quarter will cost 16s. 5½ d. after that rate. Or, which is better, reduce the 432d, into faillings, and it gives 8640c, which divide by 525, and the quotient is 165 and the remainder 240, which multiply by 12 the product is 2880, which divide by 525, the quotient is 5 pence, and the remainder 255, that multiplied by 43 and the product 1020 divided as before, gives 1 farthing, and \$25 parts of another farthing.

If a grocer bought 5\frac{1}{4} C. weight of numegs, which coll him 163\frac{1}{2}, 131, 8d, how may be fell 1 bound weight

without gain or lofs ?

Reduce the money into pence, it makes 39284d. for the dividend, and 5\frac{1}{2} G. weight into pound weights by reduction, makes 644 pound weight for the divifor; then divide the 39284 by 644, and the quotient gives 61 pence, the price of non pound, viz. 55, 1d.

Note, That what fum of money you defire to gain, add it to the price; and work as above, to know what

you get by every fingle pound.

Suppose the yearly rent of 201. belonging to 7 landlords. Reduce the 201, into farthings, and they are 19200, which divide by 7, the quotient gives 2724 farthings for each landlord, from which you may jubtract the taxes.

By the fame rule you may draw a comparison of dobts, for if a man owe to several creditors, as suppose it comests on in all 351, 161, reduce it into farthings, and divide it by the number of pounds owing, &c. As,

Suppose a man leavest 12.1. To the first 3 12 2 to pay his debts, and he owes one man 3t, the fecond 6t, and the third 1t, which makes 18t.

what is each man's share?

If 28 quarters of barley cost 30/101 6d, tell me what 84 quarters come to at that rate?

28 grs coll	301 105 6	d, what will 84 gr	s coit:
	0	12	
and the land	- 28)61	5384 (21978 per	ce
Shillings 61	0 56	-	
a la hour	2	270 183[1-	-6
in all a second	- 55	diameter and the second	
122	6 28	L. 91-11-	5
610	-		-
And dall	- 273	The state of the s	
Pence 732		teneral constitution	
	34	TO WATER	
111-	21	8	
2930		96	
58608		-	
	_ :	2'24	
Sum 61538	34 2	224	
Mary Commercial	The said	The second of the local	
		(0)	

84 qrs comes to 911 111 6d

For a proof I reduce the?	1831 12 3668 1831
Martin State of the State of	21978

How many yards of cloth shall I buy for 21/101 12d, when 21 are fold for 21/14, 3d?

First, reduce the 2 d 14 1 3 d into farthings, which make 2604, for the first number; next the 3 yards and

an half into quarters, which make 14 for the second sember, and the 21s 10s 1\frac{1}{2}\) and it makes 20646 farthings; then multiply that by 14 and the product is 280044, to be divided by 2604, and the quotient gives 1st quarters of yards, to divide by 4 (the quarters fin a yard) and the quotient is 27 yards \frac{1}{2}\), viz. 2 quarters, for answer.

Thus stated being reduced.
Farthings Quarters Farthings

2604 15 20646

If one round of iron cost 31/2, what will 7 G 3 grs 17 in cost?

31 qrs of an hundred 28 lbs in \$\frac{x}{4}\$ of an \$C\$ take in 17 lb

63

Pounds 885 in 7 C 3 qrs 17 lb

354° 885

4.)12390 farthings answer

12)3097=

210)2518 1

Answer L 12 18 11

Note, That this example may ferre for a rule to reduce hundreds, quarters, and pounds irro pounds; but most tradefmen fet the weights in short, thus, 7-3-17 ansited of fetting whem as above 7C 3grs 17 lb

Besides this way of proof, of reducing the total to farhings again, is most necessary for young learners, in

nost of the questions in the rule of three,

The Indirect Rule of Three.

IN the indirect rule of three, the numbers are in reciprocal proportion, that is, the fourth number to be found, is to bear the fame ratio to the fector as the third does to the first, but in an inverted order; that is, the greater the third term is in respect to the first, the less must the fourth be in respect to the feetond.

This rule differs in its operation, from the direct, in that, after the question is stated, and the numbers of the statings prepared (as in the direct rule) your first and second must be multiplied together, and your third number be your divisor. The quotient, as before, will be

the answer.

EXAMPLES.

Ex. 1. What number of men must be employed to sinish in 12 days, what 43 men would be 35 days about?

Answer, 125 men

Ex. 2. How many yards of fluff 3 qrs wide, will barg a 100m which requires 420 yards of 5 qrs wide?

The reason of this operation will appear plain (after what has been faid in the direct rule) by considering the last example. Now it is clear, that if of the sluff, being 5 gars wide, there are 420 yards required, then were the sluff but 1 g wide, 5 times 420 yards, viz. 2100 yards must be allowed; consequently, if the sluff be 3 grs wide, one third part of those yards will be sufficient: therefore 2100 divided by 3, will give the true answer required, viz. 700 yards.

To know whether a question belongs to the direct or indirect rule of three,

Observe, If the third number, being more than the first number requires more, or, being less, requires less, it is direct; but if the third number, being more, requires less, or being 4ess, requires more, it is indirect.

Or, without any regard to the diffinction of direct and indirect; if more is required, let the leffer of the two extremes be the divilor, if lefs, the greater.

More questions in the indirect rule of three.

If I lend A 136 / for three months, how long must Ikeep 42 / of his, to requite myself?

Answer, 9 months, 2 weeks, 6 days.

If 46 clerks in 32 days finish a piece of writing, in what time would 55 clerks accomplish the same?

Answer, 26 days, 9 hours, 9 minutes.

A garrifon, confifting of 1539 men, being befieged, hath provition only for 12 days; but it being necessary they should hold out three weeks, how many men must be sent out?

Answer 660 men.

The double Rule of Three.

Queltions in this rule have five numbers proposed, and are frequently answered by two statings, tho they may be performed by one, as shall be shewn hereafter.

EXAMPLES.

Ex. 1. The carriage of 32 hundred weight 56 miles comes to 128. After the fame rate, what must 1 pay to have 78 hundred carried 94 miles?

Note, The folution had been the fame, if the miles had been made field and third numbers of the first stating; and the C. weights the first and third numbers of the last.

Note alfo, This example may be done by one stating, thus:

Ex. 2. How many men must be employed to reap 420 acres in 17 days, if there were required 37 men to reap 54 acres in 5 days?

Eirl	Acres		acres 420
Days Then, If 5—	men287	days	2940 1260 15440(287
	17)1435(84		474 432
	75 68		°420 378

Answer 84 men : 7 Note, If you would work such questions of the double rule of three as have one of their proportions indirect; by one stating, you must multiply the third number of your stating by that number you would otherwise have placed under your first; and your first number by that you would have placed under your third, as in the following example.

Example.

Acres			
If 54-	-37-420)	E 116 (SMLA	
* 17	5 2	The number	of days which.
-		have relation to t	the 54 acres.
378	2100		
54	37		
1000 000	erydictes ad the	re and weeks w	
918	14700		
* 771	0300		m grille and quar

ber of days 018)77700(84 answer as before which have

relation to 420 acres 4260 3672

. 488

Of Exchange.

Hiving explained the nature of the Rule of three, and the manner of refolving questions therein, I am naturally led to treat of its particular use in the ex-

change of coins.

In the exchange of coins, it is necessary that the par or value of the money in each place be exactly known : for the word par fignifies to equalize the money of exchange from one place with that of another place. As when I take up to much money per exchange in one place, to pay the just value thereof in another kind of money in another place, without having respect to the price current of exchange for the fame, but only to what the money does currently pals for in each place. From whence may be eafily found out the profit and loss of all money drawn and remitted by exchange. But this par being grounded principally upon the current value of coin, the plenty and fearcity thereof, the rifing and falling, inhancement and debafing of the fame, it must necessarily follow, that the value of coin is subject unto change. An example whereof you have in France, where their coin has been changed, inhanced and lowered feveral times in a few years; and in the year 1720, the French crown, which was fixty fous, or three livres, is now raifed to feventy five fous, or three livres, fifteen fous.

The denomination in which England and the follow-

ing places exchange with other are, viz.

The exchange of monies from London to Antwerp, Amfterdam, Hamburgh, Lifle, Middleburgh, and other parts of Flanders and Holland, is valued on the pound iterling of 20 thillings: that is, to pay after the rate of to many thillings and pence Flemilth, for every pound iterling.

The exchange from London to Paris, Roan, and most parts of France, is valued on the French crown at 54de that is, to pay so many pence, or so many shillings and

pence sterling, for the French crown.

The exchange from London to Venice is made on the ducat at 52 d. fierling, to pay so many pence and parts of a penny sterling for every ducat.

The exchange from London to Leghorn, Genoa, Calais, Madrid, and other parts of Spain, is made on the dollar or piece of eight, at 54d. flerling, that is, topay fo many pence or parts of a penny flerling for every dollar.

The par at Antwerp, Amilerdam, Hamburgh, Lifle, Middleburgh, and other parts of Flanders, with one pound flerling; is thirty three fullilings four pence Blesmith, for a pound flerling: which thirty three shillings four pence do make to guilders at two shillings flerling the guilder, or 10 Jivres Tarnois.

The par at Paris, Roan, and other parts of France has been reckoned fometimes at 71 four the crown of 3 livres Turnois, generally at 60 four the crown of 3 livres, every livre valued at 1 s. 6 d. sterling, the crown

valued at 4s. 6d. fterling.

The par at Leghorn, Madrid, Calais, Genoa, is at 54

pence sterling for the dollar or piece of eight.

The par at Venice with our sterling money is at 6 li-

vres, 4 fous of Venice per ducat, or 51 pence sterling, foretimes 52 pence.

The Hamburgh par is foretimes reckoned at 4 nx dollars and a half, which makes 42 shillings Flemish

for 20 shillings sterling.

The par at Lisbon is at 6 s. 84 d. on the milrea or

The par at Oporto is the fame as that at Lisbon.

The value of the most usual coins with which England does chiefly exchange are, viz.

	Sterling money.
an incata museum or mb at	houses to so d
f fliver is	01-3
6 stivers of 1s. Flemish is -	0-7-3
2 f 1 fliver is 6 flivers of 1s. Flemish is - 1 Flemish shilling - 20 stivers is 1 guilder, or -	2-0
6 guilders 1/. Flemish, 201. is	
331. 4d. Flemish is	20-0
Zealand common dollar is	
Y Zealand common dollar is i Duccatoon i fpecie dollar	5-6
E Li specie dollar	5-0

ARITHMETIC.	167 money.
20 foluz or livre is	1 d 0-23 1-6 4-6
137% malvadees 372 malvadees, or 1 royal 372 malvadees, or 1 royal 372 royals is 1 ducat 4 8 royal piece of copper 1 royal copper 1 royal copper 173 ditto copper is 1 piece of eight, or	C-C¾ 0-6¾ 4-4 4-6 3-0 4-6
Training to the state of Portugal I militea, or 1000 reas	
I livre at Leghorn is 1 crown current at Florence is 1 ducat du banco at Venice 1 St. Mark 1 Palermo florin is	0-9 5-3 4-4 2 10 2-6
I rix dollar of the enrpire 4 rix dollars makes 32 Flemith at Hamburgh, &c. 1 guilder of Noremburg	4-5\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

A merchant in London remits to Rotterdam 375 l. to s. flerling, at 34.8 dd. for 205. flerling, how many guilders Flemish must be paid at Rotterdam, and what is gained per exchange?

TOS AKI	I HME IIC.
s. s. d. 20—35—8 Flem	ish what 375—10—20
416	7510 416
	45060 7510 30040
Guilders, stivers.	210)31241610
Answ. 3905-4	1 2)156208
1-21-	210)781014
	3905

To find the gain or loss in one pound, subtract 33 s. 4 d. out of 54s. 8d. the course of exchange, the difference is 1s. 4d. Flemish per pound, and so much gain is the course of exchange in our favour.

If the course of exchange be under par, it must by parity of reason become a loss to us, and then the course

of exchange is to our prejudice.

The like to be observed for the coins exchanged in

all other countries.

I will give but one example of lofs by exchange, by which, with the foregoing example of gain, the ingenious may with cafe, travel through the excernic courfe

of exchange with all countries.

A merchant in London remits a bill of exchange to
Amtlerdam for 2971 15. Berling, at 31s. 3d. Flenish
for 20s. fterling. I demand how much Flemish money
was paid for the faid bill at Amtlerdam, and what is loft
per pound by exchange?

20 31 3 Flemish. 297 15 sterling
Answer, 2791 guild. 8s. paid, and 2s. 1d. Flemish
per pound lost by the exchange.

Arithmetical Progression

S when a rank or feries of numbers differ orderly from one another, by some common number.

To find the fum of any arithmetical progression, add the first and last numbers together, and multiply that finm by half the number of places, and that product is the fum. But if the number of places be odd, multiply the faid number of places by half of the first and last aded, and that product is the sum.

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

What the fum?

16 Laft

17 Sum 8 Half of the number of places

1.36 Sum of the whole

Suppole a man hireth a room for a year, and agreeth to appy the first week 5d. the second week 9d. and for the third week 13d. so paying every week 4d. more until 52 weeks or a year is sinished. I demand what the rent will come to?

Answer 231. 3s. 8d.

Here you are to confider that the common increasing number is 4d fo that the last week must amount to 5z times 4 added to the pay of the first week, which is 5d, then will the last week come to 209 peace, then work as in the example.

170	ARI	THME	TIC.	
	51		12)556	4(4635.
	4		48	_
Product	204	1 11	7	6
	5		7	2
Added	209 the las	ł week	e make	44
	5 the first	week		36
Added	23.6			8d.
	26 half wee			in mar !
		2[0)	4613(231	. 35. 8d.
12	84			
- 42	8			

Pence 5564

Geometrical Progression.

CUppose one fold 12 ells of cloth, to receive for the first ell 1d, the second 2d, the third 4d, and so on doubling what is paid for the 12 ells?

0, 1, 2, 3, 4, 5, 6.

Note, That if this question had been for a farthing a button, or the like, the answer would have been farthings.

Suppose one fold a horse having 4 shoes, and every shoe 6 nails, to receive for the first nail I farthing, the fecond nail 2 farthings, the third nail a penny, and fo doubling, how much is paid for the last nail, and the price of the horse? Answer 174761. 54.

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096

12288 18432 81920

8388608

Farth, 16777216

Or if this question had been of a coat fold at a barley corn a button, and so doubling to 2,4 buttons (accounting 900 corns to a pint) I divide the 16777216 by the 900 corns, the quotient gives about 11641 pints, which divide by 64 (the pints in a buffel) the quotiengives about 262 bussels, or about 36 quarters of barley for the coat.

The Rule of Fellowship or Company

MAY fitly be divided into gain, lofs, and time.

A general Rule,
As general ftock to general profit bears;
So each man's ftock in general profit shares.

That is to fay,

Every man's particular flock being added together,
the total must be the first number in the rule of three,
the gains the second, and every man's particular stock
the third; as

Suppose two booksellers in company, Y laid in 20/2 I laid in 40/, whereby was gained 58/, what is each man's part of the gain?

172 ARITHMETIC.
Y 20
Z 40
60 gain 50l, what will 20l gain?
20
600 100 100 100 11 38 4d

40

If 60l gain 50l, what will 40l gain?

Suppose two merchants make a flock, B Jaid in 45 /, and C laid in 68/, whereby they gained 32/, how must the gain be divided?

If 113/ gain 32/, what will 68/ gain?

192

113)2176(19/ 17 C's part

1046 1017

The 20 of the fraction multiplied by 240, the pence in 201, and the product divided by 113, the quotient tells the pence.

Suppose three merchants F, G and C, join their monies to make a flock of 25000l, of which Flaid in 10000l, G 8000/ and C 7000/, with this, after a certain time of trading, they gained 7500% how must this be parted?

If 25000/ gain 7500, what will 10000/ gain? 10000

25(000)75000[000(3000/F's part

0000

If 25000/ gain 7500/, what will 8000/ gain ? 8000

251000)6001000(2400/ G's part

ARITHMETIC.

274 If 25000/ gain 7500/, what will 7000/ gain ? 7000

251000)5250001000(2100/ C's part F 20001 Stocks added G 2400/ C 2100/ 7500

The Rule of Fellowship with Time:

The Rule.

VERY man's flock must be multiplied by his time. and the total of these products added together, is the first number, the gain or loss the second number, and the product of every man's particular flock and time the third number.

Suppose two merchants in company, A laid in reel for 4 months, B put in 1361 for 3 months, and they gained 50%, what is each man's part ?

> A put in 100/ multiplied by \ 3 give \ 408 808 If 8081 gain 501, what will 4001 gain? 400 808)20000(241 508 A's part

1616 3840 608 If 808/ gain 50/, what will 408 gain?

400

2000 808)20400(25/ 200 B's part

1616

4240 4040

be a sillo div

suppose three farmers, as A, B and C hold a posture, for which they pay 45 per anoum. A days, B and 12 40 oxen 32 days, B hast 12 48 days, and C fed 16 oxen there 49 days, what must every man pay of the rent?

Oxen
A 23
B 12
C 16
Days
32
49
give 576
(384

RULES of PRACTICE.

The even parts

Ofapound	Of a shill.	Of a hund
010	2	2
s d l	d the state of	lb C
10-0-3	6	56
6-8-1	A	84-3
5-0-4	1307 St 30112014	28 - 1
A-0-2	2	16
3-4-4	12 1	14
2-6-	1	8
2-0 10	N. M. Sand	7
1-8 -		

1. When the given price is pence, take your parts in shillings, the product divided by 20 gives the answer

in pounds.

Or, You may bring it into pounds, at once, by cuting off the laft figure, and by confidering that 240 pence is 1 pound, whereof 8d is 177, 6d is 20, 4d is 27, 3d is 20, 2d is 20.

EXAMPLES.

	254 th of tobacco at 1d		716 ells at 3d
	2[1 2d	3 8 0	L8 19 ofacit
L.	I 1 2 facit	d	215 lb at 4d
4.9	254 lb at 2d	40.I	L ₃ II 8 facit
7	42 4	6 40	643 galle at 6d.
L.	2 2 4 façit	15 25	L 16 1 6

The three last examples are brought into pounds at one operation, after which manner any sum of practice may be readily cast up.

Here you may fee that 254 pounds of tobacco at 1d a pound, divided by the \$\frac{1}{2}\tilde{x}\$, gives 21s 2d, and that divided by 20, by entiting off the lalf figure, and taking \$\frac{1}{2}\tilde{x}\$ of it, gives 1 l 1s 2d, the price 1524 pounds of tobacco: and for 2d the pound take the \$\frac{1}{2}\tilde{x}\$ because 2d is the \$\frac{1}{2}\tilde{x}\$ parts of a shilling, and for 3d a pound take \$\frac{1}{2}\tilde{x}\$, and for the earlier at 2d and 46 for the earlier at 2d a

2. When the given price is such pence as are no every part of a shilling, take first the greatest even part of a shilling, and then part of that part; add them together, and divide the product by 20, or cut off the last signer, and take \(\frac{1}{2}\).



254 th of tobacco at od and 10-3 a pound d 254 at 101 d 127 fhillings in 254 6 d 84-8 in 254 groats Q 10-7 in 254 halfpence 5-32 in 254 farthings 9-10-6 facit 11-7-61 facit

Demonstration. In 254 pounds of tobacco at 101/ a pound, there must be 254 fixpences, which is 127 shillings, and 254 groats, which is 84, 8d, and 254 halfpence, which is 10s 7d, and 254 farthings, which is 55 and, all these added together, make 2275 624, which divided by 20, gives the answer 11/75 63.

a		014 15 at 11 a	ther	290	503 16 at 11-22
6	17.0	307	6	L	281-64
4	1 2	204-84	4	3	187—8
1	3	51-2	12	4	70-42
11	4	56[2—10		05	5319-63
DATE OF	39	2-2-10 facit	312	20	67-19-61 fa

2. If the given price be any number of pence above 1s, and less then 2s, take the aliquot parts in pence, as in the fast precedent, to which add the given quantity for Is, and proceed as before.

200	AKITHMETIC.					
	EX	A A	I P	LES.		
4	254 lb at 15 d		Man Man	254 to at 17 d 84—8 21—2		
	31/7-6 15-17-5 fac	it		3519—10		
12	264 yds at 18 d 132 3916	4240	14	17—19—10 faci 5 gallons at 19 d 7—6 4—7		
336	19—16—0 facit			17—1 3—7—1 facit		
五日日の大田	672 lb at 22% d 336 224 42	- Hadadaks	45 22 15 3	6 ells at 25 % d		
ala ala	63-14-0 facit.	94	88	13-6		

In 672 th at 221 da th I take & for 6 d, the ; for 1 d, and the \(\frac{1}{4} \) for the \(\frac{1}{4} \) because \(\frac{1}{4} \) is the \(\frac{1}{4} \) of \(6 \) d, by which you will find that in \(672 \) fixpences there is \(336 \) shillings, and in 672 groats there is 224 shillings, and in 672 three farthings there is 42 shillings.

44-3-6 facit.

4. If the given price be fuch fillings as are an even part of a pound therling, take fuch a part of the given quantity, and the quotient is pounds.

	Ells s [d 433 at 1-8		Yards 271 at 25
123	36-1-0 facit	10	27-2-0 facit
avods	674 21 2 4 64	17.53	495 at 3164
(भाक्षे)	84-5-0 facit	青	82-10-0 facil

In this first example of 133 ells at 1 1 8 d, 1 take the \(\frac{1}{2}\), because 1 1 8 d is the \(\frac{1}{2}\) of 1 d, and \(\frac{1}{2}\), 1 2 in 4 \(\frac{1}{2}\) is 3 times, rest 7, which makes the 3 to be 73, then 1 2 in 73 is 6 times, rest 1, which is 1 8 d, 1 par down as above. 5. If the given price be such shillings and pence as are so even parts of a pound, multiply the given quantity by the number of sullings, and take the aliquot parts of bence, and proceed according to the second rule.

6. If your given price be any number of pounds, shillings and pence; reduce first your pounds and shillings into shillings, and proceed according to the last rule.

A 154 CO. 100 CO.	Pieces 754 83	at 4	s 3	7	Tuns 176 at 67	1 3 4	d d 10
	2262 6032 377	8	3 2	080	1232	6	2 Bo
240	630211	901	0	東ルオ	11792 88 58	8	cause er rell 747 nes, rel
2	4151	-	o fa	cit	119318		3
	10000			100	596	18	8 facit

7. If your given price be any number of pounds, and exceeding five pounds, than multiply your given quantity by the number of pounds, and take your aliquot parts in fillings and pence, viz.

8. If the given quantity be any number of C., qrs. or pounds, or tuns, C., qrs. or pounds, &c. work as before where no part is, and take your aliquet parts in quarters and pounds, or in C. qrs. and pounds, and add them to your full work. An example or two will-make this plain.

10

	C . 75 = at 22	s d 22 6	1	C 5 3 at 12 12 mul.
200	150 150 37 6 11 3	B. T.	m for the face	756s 31 6d 21 9 7± C.
-	16918 9	134	1	8118 1 Sum
	84 18 9	facit	100	40 18 11

In the example of 63 G $\frac{1}{2}$ at 128 tod the C weight, I multiply the C by 128, and take the parts in pence for the odd pence; then for the $\frac{1}{2}$ of C I first take the $\frac{1}{2}$ of the price of $\frac{1}{4}$ and C, and that makes 65 5.4 the price of $\frac{1}{4}$ a C, and then makes 65 5.4 the price of $\frac{1}{4}$ a C, and then fixed by $\frac{1}{4}$ the prime of a qr of a C. Add them together it gives the price of $\frac{1}{4}$ of a C, which is 95 7.54, and must be added to your first work. Two or three examples more will make it familiar and easy to any capacity.

-	84 C 3 q	rs 11 th at	THE	· · · · · · · · · · · · · · · · · · ·	215	I	bc
	84			节着	10	II	1
	168			74	I	4	100 11 10 10
日本	42 28			47	0	9	4
-3	18 6		NE STELLE	T	18 he pri	ce of	3
1500	18512 6				qrs 1	1 15	13qui
10	92 12 6					By	

Tun C qr fb l s d
12 14 3 14 at 15 17 06 a tun
12
190 10 00
\$\frac{1}{5}7\$ 18 9
1

190	ro	00
\$ 7	18	9
+ 3	3	6
\$ O	7	112
30	3	112
30	1 _	II

The Order of deducting Tare and Tret.

Ross is the weight of a commodity, with the hogshead, cheft, box, or whatever else contains it. Tare is the allowance given for the weight of the cask, hoeshead, &c.

Tret is an allowance of 4 pounds in 104 pounds, for

waste and dust on some fort of goods.

1. Here 14 pounds tare being \$\frac{1}{8}\$ of 112 pounds, take \$\frac{1}{8}\$ of the grofs, the quotient gives the whole tare, which

lubtract from the gross, gives the neat weight.

The operation is performed thus: divide the grofs by 8, fay 8 in 45, 5 times, and 5 C remains, which is 20 qrs, and 3 is 23; time 8 in 23, 2 times, 7 qrs remain, which turned into pounds by 28, and added to the 15 pounds, make 211 pounds, then 8 in 211 is 26 times. So the tare is 5 C, 2 qrs, 26 pounds.

	AND IN A THE PART OF						
C	qr	16				S	d
Example 40		17		Neat	at :	22	6
22				lb	-		
-				148	2	9	4
85				27	0	4	*
80				148 27 127	0	2	4
20							-
0	3	44		facit	3	4	4
-0-10 and				price	to:	17	10
9010	- 3	43					
1		1					
6. 15	2	1-2					

If the tare be 16 pounds in 112 pounds, take $\frac{1}{7}$ of the grofs, and work as before.

If 18 pounds per 112 pounds, for tare, take the aliquot parts, viz.

For 16 lb take the 17 Add the tare of 16, and the
For 2 take the 1/8 tare of 2 together, the total
subtract from the gross, and work as before.

2. When an allowance is made for tret, then (after the tare is fabracked from the groß) the remainder is called futtle, which divide by 26 (because 4 pounds is the 26th part of 104, the allowance always given for tret) the quotient gives the tret, which subtracked from the suttle, gives the neat weight. gr ib 15 gr. tare 16 in 112 tret 4 in PO4

7 6 2 06 tare							
39 1 09 futtle	4)104						
	26						
157							
1265							
324							
4405 pounds fuule	26)4405 —180						
man man	169 245						
4236 neat pounds at 6d	11						
21188							

18 o facit.

2. If the allowance for tare be 8 pounds, 10 pounds, 12 pounds, in 112, or any other leffer number, whether an all quot part of 112 or not, in fuch eafes, divide the gross into two parts by 2, which will make it half hundreds, then fay, 8 is \$ of 1 \$ C. or of 12 rounds in 112 pounds.

Rule. From & of the grofs, take & of that 8th for tare at 12 per cent. When you have found tare fub-

tract it always out of the whole grofs.

I might enumerate examples, but these being fufficient to instruct any ordinary capacity in tare and tret, I shall proceed to shew some other abbreviated ways

of casting up goods and merchandize.

For retailers of small parcels, as mercers, linnen and woollen drapers, haberdashers of hats, &c.

HE most abbreviate and ready way is, to multiply the price by the quantity.

Example. Sold 7 yards of cloath, at 141 6d a yard.

Say 7 times 6:1 42, which is 2:64, fet down 6 pence and carry 3 fhillings to the place of fhillings, and lay, 7 times 4 is 28, and 3 | carry is 31, fet down 1:, and carry 3 angels to the place of tens of fhillings, and lay, 7 times 1 is 7, and 3 | carry is 10 angels, which is 5.6 fix the 5! in the place of pounds: fo the price of 7 yards is 6! 1:64.

Example. Sold II yards and a at 231 3d.

For half a yard, take half of 131 3d and add to the product of 11 yards.

Object. There are many numbers under 100 that are neithed in the multiplication table, or being multiplied together, will not produce the given quantity; and so consequently cannot be done by this new way of practice.

Anf. It is very true, there are feveral numbers under 100, that no two numbers multiplied together can produce them, fuch as 13, 17, 19, 25, 29, 31, 33, 37, and many more.

Rule, In-fuch cafes, multiply by two fuch numbers, as being multiplied together will come nearest to such odd numbers; then multiply the price by that, part which wants to make up the given quantity. An example of which follows:

Example. 29 ells at 7—9

Here I multiply by 7

and 4, because 7 times 4

2—14—3 is 28, and for the odd ell

4 to make it 29, kadd the

price of the ell to the

10—17—0 produce.

7—9

Ant. 11/4; 9 d

Anf. 11-04-9

FRACTIONS

Arc of two kinds VULGAR, and DECIMAL.

A Vulgar fraction is caused by division of whole numbers, the remainder of which being lefs than the divisor, called the numerator, is always the dividend, and the denominator is the divisor.

3 Numerator. Denominator.

A decimal fraction is such a one, whose denominator is understood, and therefore need not be expressed and is an unit with as many cyphers following it, as there be figures and cyphers in the numerator.

Decimal fractions, whether they fland alone, or be joined with integers, have always a comma or point before them to diffinguish them from integers, as, 5, 560042.

In decimals the value of every-figure or cypher decreafes by a tenfold proportion from the units plact towards the right hand, as the whole numbers do increafe the value towards the left hand, by the like proportions as you may fee in the following table.



Whole numbers | Decimals

Cyphers before integers, and at the end, or right hand of decimals are of no value; but after integers, and before decimals they have their value; for in integers they increase, and in decimals they diminish the value of the other figures joined with them,

The integers oos is but 5, and oo4 is but 4, and os is but 6.

But in decimals, oos is and oos is and and ,06 is 6

and again, in integers 500 is five hundred, and 400 is four hundred.

In decimals 500 is but 5. and 400 is but 4, &c.

Next to abbreviation and valuation of vulgar fractions, there is little required, but to know how to bring a fraction of a leffer name into a fraction of a greater name. and to reduce fractions of diverfe unequal denominators to one common denominator, which being well underflood, you may with as much ease add, subtract, multiply and divide a fraction as you can a whole number.

In decimals a fraction is feldom abbreviated ; there-

fore.

I. To abbreviate any vulgar fractions, find fuch a number for dividing both the numerator and denominator thereof fo, that no remainder be on either of the divisions.

Example. Abbreviate 26 into 4 its lowest term.

Say, 12 in 96, 8 times, and 12 in 120, 10, then the fractions is 3; then fay, 2 in 8, 4 times, and 2 in 10, 5 times, then the fraction is 4, fo that 4 is to 5, as 96 10 120.

2. To know what part of a pound sterling any number of shillings and pence is, bring the shillings and pence

into pence for a numerator, and place 240 under it (the pence of one pound) for a denominator.

Example. What part of a pound is 115 3d?

3. To reduce vulgar fractions into decimals, Add cyphers at pleafure to the numerator, and divide by the denominator. Example, viz.

Reduce 111 3d into a decimal fraction.

12 24/0 1350000

150
60
0 240

Or. 1615, or. 1625

Example, Reduce \$ into a decimal fraction.

.800

Or rather . 3

Facit ,800

4. To value a vulgar fraction, Multiply the integer into the numerator, and divide by the denominator.

What is the & of a pound flerling?

An ell worth 7s - 8 what is $\frac{2}{3}$, worth,

5. To value a mixt number, Multiply the mixt number by the numerator, and divide by the denominator.

Example.

6. To value a decimal fraction, expressing coin; every prime or unit in the first place is 2s value; every 5 in the second place 1s, and the rest farthings; but if they exceed 205 there must be one farthing abated.

Here 7 primes is 144, and 5 taken out of the fecond place is 11 which makes 151, then 2 remains, which is 27 to the thirds, or place of farthings, out of which abate 1 for 7550; it makes 151 621, which is the 3 of a pound litering.

7. To reduce vulgar fractions to a common denorationator, Multiply the numerator of each fraction into every denominator, except its own, which makes the product of a new numerator; then multiply all the denominators together, and that product is one common denominator to all the new numerators. Example.

Here 12 is the common denominator to both the new numerators, viz. 8 and 9, and you find that 8 is to 12 as 2 to 3, and 9 is to 12, as 3 to 4.

Reduce 1, and 5, and 7 of a pound to a common denominator.

To prove your work, Divide your new numerator by the nu- 6 18 merator of that fraction, and di- - 8 wide the common denominator of 24the fraction by the denominator, if 8 144 160 168 both quotients are equal, your work is true.

102 102 102 102

Exam. 144, is 48 here divid-

ed by 2, make 48, and 192 divided by 4, gives 48, which was to be proved. Or, you may prove your work by abbreviation of fractions; but it is attended with much difficulty, where 4 or more fractions are reduced to a common denominator.

Now this reduction of fractions is of little use otherwife than to prepare a fraction to be either added.

fubtracted, multiplied, or divided.

As if the 2 and 2 and 2/ were to be added together, reduce them first into a common denominator, as in the la? rule, it makes 144 and 160 and 168. Add all the new numerators together, make 472, which divided by 102, the common denominator, makes 2/ - as in the following example.

Addition of) 144 Vulgar Frac- 5 160

2) 88 Facit 2 88 or 9-2

And if the 2 and 2 and 2/ were to be added together in decimals, reduce them first into decimal fractions, according to the third rule, and the operation flands, viz.

0000

12,75 Say, 4 in 30 is 7 times, and 4 of (2,8393 in 20 is 5 times; and fo for the Facit 2 ,4583, or, 2 9 2

By this addition you fee how much lefs work is made by decimals than in vulgar fractions, and how easy their

ralue is found our according to the fixth rule.

-8. To reduce the compound fractions, or fractions of leffer name into the fractions of a greater, Multiply the sumerators together for a new numerator, and the deiominators multiply together for a new denominator. Reduce 4 of a penny into the proper fraction of a

wound fterling.

Say ? of Tr of To, or ? of To, facit -1

o. To reduce a mixt number of a leffer name into the fractions of a greater, Reduce the mixt number into n improper fraction, and work as before,

Reduce 234 into the proper fraction of a pound fler-Fling.

2 of 1 of 30, or 7 of 30, facit 700. By the same rule you may reduce any fort of weight r meafure

For compound fractions, their use is chiefly to bring ractions of divers denominations to one and the fame enomination.

As if the \$ of a penny, \$ of a shilling, and \$ of a

ound were added together.

The 3 of a penny must be reduced into the fraction f a pound and the 2 of a shilling, must be reduced into se fraction of a pound, thus:

Then the fractions to be added Jare 30 and 30 and 7, which reof to fac. of and add them together, either by Idecimals or vulgar fractions.

Addition of Fractions.

IF the fractions to be added have one common denominator, add all the numerators together, and vide the product by the common denominator.

Example. Add
$$\begin{cases} \frac{1}{12} \\ \frac{1}{12} \\ \frac{1}{12} \end{cases}$$
 of a pound together.

2. If the fractions to be added be of different denominators, reduce them to a common denominator, and proceed as before.

To add $\frac{\pi}{4}$ and $\frac{3}{4}$ and $\frac{\pi}{2}$ of a pound in decimals, reduce them into decimal fractions, and add them up as in whole numbers, keeping the place of units just under each other.

Subtraction of Fractions.

1. To subtract fractions of different denominators, reduce them to a common denominator, and subtract the lesser fraction from the greater.

Example, From \$ 1, take 2 1, from 7

2. If you have a mixt number (or integer and fraction) and the fraction to be subtracted be greater than the fraction from which you are to subtract.

Borrow an integer from the mist oumber, and work

as in fubtraction of whole numbers.

Example. From 112-8 Here I cannot take 2 34 - 28 out of Et, therefore, I borrow an integer, wiz. 12. and fay, 9 out of 12, selfs 2, to which add \$5.

rest 11 and carry 1 to 2, is 3 1. out of 11 1. rest 8, and facit II.

> From 25 from 42 Take 1972 take 1618 Facit 15 8 facit 2529

Subtraction of decimals is the fame as in whole num bers, keeping the place of units just under each other of the integers, and primes under primes of the decimals, Sec.

Multiplication of Fractions.

nultiply proper fractions, multiply the numerators together for a new numerator, and the der ominato's multiply together for a denominator.

Example. Multiply 7 by 3, facit 21.

2. If a mixt number and a fraction are to be multiplied together, reduce the mixt number into an improper fraction, and work as in the last.

3. To multiply a mixt number by an integer, make the integer an improper fraction, by placing (1) under it, and reduce your mixt number into an improper fraction, and work as in the fift rule.

Example. Multiply 75 by 4

4 Multiplication of decimals is the fame as in whole numbers, faving as many decimal parts as are in the multiplicand and multiplier, fo many mult be cut off from the product, which if it have not fo many places, the defect mult be supplied with cyphers towards the left hand.

Multiply ,1005 11 ,83 2 ,87 1005 8281 3015 9464 2366 Facit ,0031 155 23 ,9521

Division of Fractions

o divide fingle fractions, there is no need to re-

but multiply the numerator of the divifor, by the denominator of the dividend. And contrary for the terms of the quotient thus:

Example. Divide
$$\frac{7}{3}$$
 by $\frac{1}{4}$ $\frac{1}{4}$ $\frac{7}{4}$ $\frac{7}{$

2. If it happens that the fraction of the divifor be greater than the fraction of the dividend, the facit of fuch division is a fraction.

Example. Divide
$$\frac{3}{4}$$
 by $\frac{7}{8}$ $\frac{7}{4}$ $\frac{3}{4}$ $\frac{12}{48}$ Facit $\frac{12}{14}$

2. To divide an integer by a fraction, multiply the integer into the denominator, and divide by the numerator.

Example. Divide 8 by \$

4. To divide a fraction by an integer, place the numbers as follows, and work as by the first rule.

Example. Divide \$ by 3

5. To divide a mixt number by an integer, reduce the mixt number into an improper fraction, whose denominator multiply by the integer for your divifor.

6. To divide a mixt number by a fraction, reduce the mixt number into an improper fraction, and work as before.

7. To divide an integer by a mixt number, reduce the mixt number and integer into improper fractions and proceed as before.

9. To divide a miar number by a mixt number, reduce them into improper fractions, and divide as before:

Example. Divide 23 by 23

Division of Decimals is the same as in whole numbers till the work be done, and then tile the converse of the rule for methylication, viz. 6 many decimals as are in the dividend, so many there must be in the division and, quotient; and if there be not so many, the quotient unist be supplied with cyphers towards the left hand

Example. Divide 33,9521 by 2,87

See the converse in multiplication of decimals.

The Rule of Three in Fractions.

R.U.E. E. You mailt sultiply your facond and these numbers together, and divide by your father Observing the same method as in whole numbers, viz. That the fift and third numbers be of one name or de-

nomination.

Example. If 3½ buy ½ of tobacco, What shall 96 ½ buy?

Facit 4377 lb of 648 tobacco 600

全是是多面多是更多。

12

The Mensuration of plain Superficies (or flat Measure) fuch as Board, Glass, Wainscot, Painting, and the like.

Note 1. Hat in superficial measure, 12 times 12 inches, being 144 inches, accident number of inches contained in a square, foot of supersimilar measure.

R 3

2. That to fquare any number, is to multiply it by itself, as if you would know how many square feet is contained in a vard fourse, multiply 2, the feet in one vard by 2, the product is 9, and so many feet make a ward fquare.

Example. How many fquare inches are there in a vard fourre.

Facit 1206 inch

The general rule is to multiply the length by the breadth, the product is the content.

Example 1. A board 12 feet long, and 14 inches broad, how many fquare feet?

Example 2. A piece of wainfcot 24 feet, 9 inches long and 11 feet deep, how many fquare yards?

Example. A painter hath done a room, 90 feet about, and 11½ feet high, I demand the square yards therein.

Note, This way 'tis done much truer and with fewer figures, and no charge to the memory.

Example. A glazier hath done a pane of glass of 5 feet 73, high, and 5 feet 54, broad, at 6 d the foot fquare.

Note, The glazier's foot divided into 10 parts, and every part into 10 parts more 2292 2864 2864

Facit, feet, 31,7442

A general rule to measure round or square pillars.

Multiply the length by the circumference of round pillars.

And for square pillars, add the fides or breadth together, and multiply the total by the length.

Example. A painter hath done a pillar of 6 feet 3 mehes circumference, and 14 feet 9 inches long, 1 demand the square yards of painting?

The common and belt way to do this, is by crofs muitiplication thus,

Facit, feet 92-2-3 anfwer:

Multiplying 9 by 3, gives 2 feet 3, put down the 3, and carry 2; then 3 times 14 is 42, and 2 is 44, which

is 3 feet 8, which put down as you fee.

Then 6 times Q is 44, which is 4 feet 6, put 6 under the 8' far being 12ths of a foot as the 8 is) then 6 times 14 is 84, and 4 is 88. So the fair of the 2 lines is 92 feet 2'-3". Or the feet disided by 9, is 10 yards 2 feet, 2 primes (or 12ths of a foot) and 3 feeonds or 12ths of a r2th.

The fame is done decimally thus to

9) 92,1875 Or yards 10. 2,1875 feet.

For regular polygons, add all the fides together, and multiply the total by half the nearest distance from the center to one of the fides.

For cones, multiply half the length by the circumference.

For pyramids, and all the breadth at the bale tages ther, and multiply half the length by the total.

For globes, multiply the area of the greatest circle by

Menfuration of Solids.

Solids; fuch as flone, timber, &c. are measured by the cubic or folid foot; now a cube is a figure like a dye of 6 equal fides, and a cubic foot contains 12 inches future on every fide.

THE rule is, multiply the length by the breadth, and that product multiplied by the depth, which divide by 1728, the cubic inches in a foot folid.

Example.

A piece of timber 16 foot long, 14 inches bread, and

Example.

A stone 7 feet 3 inches long, 4 feet 5 oches broad, and 2 feet 3 inches deep, how many folid feet?

Facit 124407 cubic inches

But the way most used, and which is shorter and most

728, the cubic inches in a feet fell

Only carrying the 12's both in your multiplication and addition.

To find how many inches in length make a folid foot of timber, multiply the number of inches fquare in itelest for a divisor, and make 1728, the cubical inches of a foot your dividend.

Example.

A piece of timber 18 inches fquare, what length will it require to make a foot folid?

324) 1728 Facit 5 inches 108

Example.

How many inches in length will make a foot, at 12 aches square?

12

144)1728 — 288 Facit 12 inch

PLANK MEASURE.

table shewing how many feet make a load of plank

Inch	Foot to		Foot to
thick	the load		the load
(Alp)-	600	5	120
12	-400	53-	109, 0912
na vgori	300		-100
21-	240	6-	92,076
3 -	2008 \$201	(0317 -	85,714
-33	171, 428	73	80
17 14 14	150 me 1 30	8 1	7501000 10
1 2042	133, 31 Obv	83-	70,588
-ASSEC	teund in un as a		

The way to make this table, or to know how many

Rule. Say, if 12 inches thick, require 50 feet to make a load: what will 4 inch chick sequire? This by the reverse rule of three, press 150, as you see by the operation.

12. 50 4.

4) 600 (150 feet for answer.

So that if you divide 600 by any thickness of plank, the quotient sheweth how many feet thereof make a load.

2 Exam. If it were required to know how many load are in 5762 feet of plank 5 inches thick.

By the table 120 feet make a load; therefore divide

5762 by 120, and the quatient is loads.

Or multiply the feet given by 14,7, and thus product by the thickness of the plank, then divide by 1728 the inches in a folid foot, and that quote is feet, which divide by 50 the feet in a load, and you have the loads without the table.

8207P8 XMA

1728)4148640 (24Co (43 To load.

6926 50)

Note, The remain let 1413 is equal to 56 feet, and of 3 is equal 1 of the load as above,

Exam 3 In 1234 feet of 4 inches plank, from many

load and folid feet?

3) 34 (11 plid feet.

For the folia feet, divide the remainder by the number of 50's contained in the divider; or by the times that the thickness of the plank is found in 12 as above.

Alfo, if the last example were done by the fecond rule, under the second example, 1254 multiplied by

MENSURATION.

20

144, gives 177696, and that by 4 faches thick, 710784, which divided by 1728, the quote is 411 feet, or 8 load (divided by 50) and 11 foot, as in the last rule and example.

3dly, To know how many feet of plank of any thickness make a tun. Say by the inverse rule of three, as 12 to 42, so the thickness to the answer.

And formay your make a table of the free of any thicknels in a tun (as is before shewed for the load) by only dividing the 280, by the thicknels of the plank.

So in thickness Feet make a tun

-01 1 mich-400	
2240	
the stage I made to de stable To T	
120	
5 96	
6	



A Short and Eafy

E

BOOK-KEEPING.

INSTRUCTIONS

To 7Hat is the first thing I must do, who design to keep my books of accompts after this method.

Answer. You must make an inventory; an example

of which is at the end of these instructions

2 How must I post the first part of this inventory ? A You must postit on you: ledger, viz, merchandize. to the debit of that accompt.

Cash, to the debit of your cash book,

George Mason's debt, to the debit of his accompt. Germain Bell's debt, to his debit alfo. And for the whole fum (viz. 720/) you must give

counterpart in credit of flock.

9 How must I post the other part of this inventory. A To the credit of Thos. Richards, the fum you owe

To the credit of John Fair, the fum you owe him. And for the whole fum. (viz 1001) you must debit

flock. See the feveral accompts, fol 1, 2.

Q I see by the first page of the day book, that it contains entries of goods fold to fundry persons: How must these be posted.

A To debit of Richard Hughs, what fold him, To debit of Anthony Coule, the like.

To debit of James Gray and company, the like:

To debit of Richard Hunt, the like. See their ac-

compts, Fol. 3 ledger.

And counterpart must be given for the whole sum of this page (viz. 161 10s 10s) on credit of merchandize in the faid ledger. See accompt of merchandize, Fol. 1. ledger.

And the like must be done for the pages 2, 3, 4, 5

and 6 of the faid day-book. Note. That the ready money taken for goods fold is:

posted each month to the debit of your cash-book. D How must I enter the monies I receive (of debtors.

on my ledger ?')

A On your debit fide of your cash-book. See that

9 How must I post those sums received into my

ledger ? A To the credits of the persons, of whom received.

See the accompts of.

Richard Hughs - Fol. a Anthony Coule - Fol. 2 John Gray and company Fol. 2 Thomas Wilfon - Fol. 3 Henry Trap - Fol. 4

2 How must I post (into my ledger) the total receipts of the month of August (viz. 57/ 31 and 10d.

A You must post that total to the debit of your cash, in your ledger, writing,

To fundries. Received per cash-book.

See the account of cash, in the ledger, Fol. 1 Do the like for September and October's receipts.

2 How must I enter the monies I pay to those I owe

to, and who have credit in my ledger. A On the credit-fide of your cash book. See the rash-book.

2 How must I post those sums paid?

A To the debits of the persons to whom paid. Sec he accompts of Thomas Richards, Fol. 2. and John Fair, Fol. 2. in your ledger.

2 How must I post (into my ledger) the total pay-

uents of the month of August (viz. 30/.)

A You must post it to the credit of your cash, in your ledger writing.

By fundries paid per cash-book. See the accompt of cash in your ledger Fol. 1.

I understand by these directions, how to state and post my books. How must I proceed in balancing my ledger ?

A Value your merchandize remaining unfold; and enter the fum of their value on credit of the accompt of merchandize, in your ledger. See the account of mer-

chandize, Fol. 1. And give the counterpart in debit of the accompt of

balance in the faid ledger. See the debit of balance. Fol.

Which done, februart the debit fide of the faid accompt of merchandize from its credit, and place the remainder (viz. 97 101) on the debit fide of it. See the accompt, Fol. 1.

And give counterpart on credit of profit and lofs in the faid ledger. See accompt of profit and lofs, Fol. 4.

Then add up debtor and creditor to the accompt of cash in the faid ledger, and subtract the credit from the debit, and place the cash remaining (viz. 2971 71 1d) on credit of the faid accompt of cash. See the accompt, Fol. 1. and give counterpart in debit of the accompt of balance. See faid accompt of balance, Pot. 4.

9 How must I do with the accompt of expences? A Write on its credit fide (the 32/) by profit and

lofs, and give counterpart in debit of the accompt of profit and lofs. See both the accompts, Fol. 2, 4; D How must I do with the accompt of George Ma-

fon, who I find by his accompt, owes me rol.

A You must write on credit of his accompt by balance now owing to me 10/.

And give counterpart, on debit of balance. See both the accompts, Fol. 2, 4.

Do in the fame manner by the accompts of

Germain Bell - Fol. 2 Richard Hughs - Fol. 3 John Gray and company Fol, 3 And Thomas Wilfon-Fol. 2

See their particular accompts in your ledger. 9 How must I do with the accompt of Thomas Richards, to whom I find I owe 201

A You must write on the debit of his accompt. To balance now due to him 20/ And give counterpart on credit of balance. See both

the accompts, Fol. 2. 4 Do the like with the accompt of John Fair. Sec his accompt. Fol. 2.

9 How must I do to balance or close the accompts

of flock, profit and loss. A Subtract the debit, or profit and lofs from its cre-

dit, and fet the remainder (viz 6cl 10s) being your clear gains during the time of this trade, on the debit of profit and lofs. See the accompt, Fol. 4. And give counterpart in credit of Rock. See accompt &

of flock, Fol. 4.

9 How must I do to balance the accompts of stock. A Subtract its debit from its credit, and fet the remainder (viz. 685/ 101 being your prefent net (tock) on the debit of flock. See the accompt, Fol. I.

And give counterpart in credit of balance. See ac-

compt of balance, Fol. 4.

This done, your ledger is balanced, and the accompt

of balance, Fol. 4.

This done your ledger is balanced, and the accompt of balance (if you have proceeded right) will be equal on both fides.

The INVENTORY.

London, August 1. 1762.

Have merchandize of fundry? L. 500-00-00 forts to the value of -In eath of ready money Owing to me, by

Richard Mafon 20-00-00 Germain Bell

Owing by me, to Thomas Richards L . 60-00-00 bhn Fair _____ (0-00-00

L. 110-00-00 My net flock 620-00-00

210	Book-Keeping.				
	Cash-Book. 1. Reccipts—— Debtor.	-	I.	5.	d.
	August, 1762.				
pt.	To flock by inventory 8 Richard Hughs, of him 2 Anthony Coule, ditto 1 Jihn Gray and company, ditto 20 Thomas Willon, ditto 31 Henry Trap, ditto 31 Merchandize fince 1ft of August	1 3 3 3 3 4	3 1 4 0	00	06
	L. 57—03—10 Received		237	03	10
	September, 1762.	I			i
	11 Richard Hughs, of him Anthony Coule, ditto 15 George Mason, ditto 20 Germain Bell, ditto 24 Henry Trap, ditto 20 John Cray and company, ditto Merchandize since 1st of September	332243	3 10 5 2	03 15 00 00 00 06 00	00 00 00 00
3	L. 69—18—08 Received		276	12	06

Book-Keeping.			3	1-1
Payments——Creditor.	1	I.	Section with	·d.
August, 1762.			-	
By Thomas Richards, to him John Fair, ditto Paid this month	2 2	10	00	00
Refling per balance		207	Q3	CD
		237	03	10
September, 1762.			ı	1
22 John Fair, to him	2 2	10	00	00
R esling per balance		261		-
		276	12	06

21:	2-	Book-Keeping.				
		2. Receipts——Debtor.	3 /	1.	s.	d.
	e // clin-	October, 1762.	10	77-		としない
pt	20	Last balance To Anthony Coule, of him John Biddy, ditto John Gray and company, ditto Merchandize since 1st of October	3 4 3	5	12 00 18 15	00 00 03
		L. 97-04-07 Received	No.	358		1
						Link
		scapes, 1961,				-
		November, 1762.			4	28
The same of the sa	Car Tenance Contract	75 - 100 0 000 000		-	7	to her made by
	- Continue de la Cont	man property			-	-
-	-				-	

		Book-Keeping.			213
	-	2.	,	3	1 1
		2.			
	Payr	nentsCreditor.		1.	s. d.
	-		ı,	1.	5. 4.
	- 1	October, 1762.	4		4
	TC CHIEF				1
		7.0			
5	By Thoma John Fair,	s Richards, to him	2	10	00,00
I	Expences,	&c. fince ilt of August	2	20	00,00
	r ham	A M H-U	9		
Į		Paid this month————————————————————————————————————	-		1701
ı		1			-
i	1	Committee of State Administration of the committee of the		358	1701
ı	10 10 1	ay-Book. n	1	-	
ij	0 4		-	- 1	
ı	1351	Admir on the action	1	1	
I					
-			1		
- Contract	14 1-5			15	1 3
ŧ	100 S-1	1			
i i	NI	ovember, 1762.	1		
-	45 5 1240	yellibei, 1702.			
OLLAND.	1	.valightee has view	1		
į	0-3	The same of the said	4	-	
ı	100	0-1 0-2 15 ,21 hor hou	4	1	
200	000	The state of the s			
To the same	10/2		1		
Section 1		Commence of the state of the st	1		1
i		12 1601		lians	3
I	2010	d end-united B	П		1
8		The last to the la	1	3	

DAY-BOOK,

OR

JOURNAL.

-				
-	Day-Book. 1.			
	Accompts debtor to merchandize.	2.	s.	d.
	Sold. August 1. 1762.			
3	Richard Hughs, 25 ells linnen at	6	05	10
3	Anthony Coule, 58 t ells linnen, at	6	16	06
3	John Gray and company, 3 doz. scissars, at 4-0 - 1. 0-12-0			ı
	3 doz. ditto 3-9 - 0-11-3 6 doz. round points, at 3-9 1-02-6			ı
	6 doz. middling 2—8 0—16—0		01	09
3	Richard Hughs, 3 masses of pearl, at l. 0-2-6	0	07	06
	Merchandize fold	16	10	10

Book-Keeping.	215
Day-Book. 2.	
Accounts debtor to merchandize. Sold. August 17. 1762.	l. s. d.
Thomas Wilfon, 12 doz. feiflars 4—3 /. 4—12 6 doz. middling 4—3 — 1—05 9 doz. ditto 2—3 — 1—04 20 doz. fmall 1—6 — 1—10	-6 -6 -0 -0 8.13.00
Anthony Coule, I looking glafs - I, 0 - 08 t ditro middling 0 - 09 3 tortoife fhell combs 0 - 06	-6 -6 -0 104,00
Henry Trap, I doz. feiffars with cafes // 0-09 I doz. without cafes // 0-09 Soid.	
August 27. 1762. Richard Hughs, 3 pair feislars half barb	50
doz. knives at 84 000 12 dezelafp knives 1-1 14 doz. knives horn handed 300 Merchandize fe	4-c 7-0 0-0 5 18 c4

21	6 Book-Keeping.			
	Day-Book. 3.	1	1	
	The special of the state of the			
		+	▝	
	Accompts debtor to merchandize.	1.		,
	The second secon	F.	5.	d.
	Sold.		3	
	August or 1860			
Ť	Receipts in ready money for goods fince?	42		
	the 1st of August	42	18	10
1 9		1		
1))	A SECTION OF THE PARTY OF THE P			
13	September 3. 1762.			
14	Henry Trap.			
	A parcel of feiffars	0	12	00
	Annual Advanced Control of the Contr			
	ditto 6			
-	Richard Hughs,			
3	2 masses of pearl, at	0	20	20
-	2 manes or pears, at	Ĭ		
1				
-	ditto II			
3	Richard Hughs,			
1	13 ells cloth, at - 5. 2-6	I	12	06
			-	
20	1			
-	ditto 15			
3	Anthony Coule,			
-	4 masses pearl 2-6 1.0-10-0			
1.5	The state of the s		- /	
1	The transfer of the state of th	0	10	20
1	ditto 16			
4	Henry Trap,			
1	12 doz. horn trumpets, 2 1. 1-1-4	11		
1	2 doz, comb brushes, 3 - 0-06-e			
1	2 doz. ditto, 2 0-04-0	0		
100	Part Contract Contrac	I	14	20
	Merchandize fold	1-1	- 6	-
1 3	The state of the s	41:	T.C.S.	4

			Book Keeping.		2	17
	1		Day-Book. 4.	1		
	-	Acc	compts debtor to merchandize.	1.	s.	ď.
	3	maí	Sold. September 30. 1762. i Biddy, les Ven. pearl, at 1. 1 00 0	-		
	13	doz	fine combs, at 0 09 0		١8	00
	-	John	ditto dirany,	0.7	T.	
	1 1	iece iece	white gaufe qt. 24 ells — — — — — — — — — — — — — — — — — —	I		
			black ditto 19 — — — Ells—123 at 21d	10	15.0	2
			ditto			
	CCI	the	s in ready money for goods fince }	38	60	6.
	r d	oz.	October 2. 1762. mas Wilfon, fciffars with cafes, at 1. 0 12 0 s pearl, at 2. 0 08 0 s ditto. at 2 17 4			
	9 18	14110	3 - 7 - 7		70	
-			Merchandize fold	56 1	70	r

LEDGER.

ALPHABET.

Bell, Germain 2 Biddy, John 4 Balance 4	Merchandize Mafon, George
Coole, Anthony 3 Cash 1	Profit and lofs
E Expen, and abatem. 1	Rept. and paym. cash a Richards, Thomas
Fair, John 2	Stock S
Gray, John and comp. 3	Trap, Henry
Hughs, Richard 3	Wilfon, Thomas

220	Book-Keeping.				
	Ledger. 1.		1.	ı	,
1762	Stock Debtor.	ī	2.	5.	a.
Aug.	2 To fundry to whom I owe-		110		
oa.	To balance N. flock	4	685	11	00
			795	11	co
	THREVALS				
	1				
2	Children C e		021		ST.
1762	Merchandize, Debtor.		100	큠	B
Aug Oct.	To flock per inventory To P. and L. carried th ther	i	;20 97		
Oct.		4		-	_
-	William Short S-		617	10	00
	3 15 3		15.	×	24
	N - 5	Г	110		
411	A RESIDENCE AND A STATE OF THE PARTY OF THE	L	1		
	as and freezening the same		-		g
	2	1			
1762 Aug.	Receipts or Cath, Debtor. To flock, money per inventory	١,	: 80	00	00
	I To fundries per book, page 1	1	57	03	10
Sept Oct.	To fundries — I			04	
OCE,	21		-	-	-
	THAT HADE A	100	404	07	01
	1 - 2				
	The second of th	11	10		F
1762	Expences, &c. Debtor.	ed.	TA.		1
Oct	3 To payment hereon fince I Aug.	I	.31	19	00
	100				
				-	

	Book-Keeping,			2	23
1	Ledger. 1.			Ĭ	
		ı	7.	s.	d.
1762	Stock-Creditor.	ı	1	Н	
Aug.	13 By fundry per inventory	-4	730		
-		-111-	795	-	-
			1,73		
-		ı	64	ı	
COLT	Merchandize, Creditor.	W.	0.	H	5
1762 Aug	By fundries fold, day-book I	I		10	
Sept.	By fundries - 3	ı		18	
0.8.	20 By fundries — 4	ı	56	170	
1	Walter Committee	Ī	262	LAC	25
	By bal, value of remains-	4	354	15	07
	0 1		617	10	cic
	Payments or Cash, Creditor.	0		Н	
1762 Aug.	21 By fundries per book I	L		00	
Od.	30 By fundries I			00	
	1	70	107	- oc	20
2000	By balance, rest in cash	4	297	97	IC
		8	404	07	10
VE			-		
762 VSt.	Expences, &c. Creditor.	4	31	10	
1 5					
	PRP .				

222		Book-Keeping.				
THE		Ledger. 2.		1	1	
1762 Aug.	То	George Mason, Debtor, stock, now owing me	1	20	00	d.
1762 Aug	1)To	Germain Bell, Debtor- flock, due to me	1	10	00	00
Sept.	23 To 28 To	Thomas Richards, Debtor, payment, to him	5 1	10	00	00
O&.	75 To	balance now due to him —	1	40	00	00
1762 Aug. Sept. Oct.	31 To 23 To 23 To	John Fair, Debtor, payment, to him ditto ditto	1 1 1	5 20 35	00	00
19				-	00	

,		Book-Keepin		223
ul		Ledger.	2.	The state of the s
1762 Sept. Oct.	15	George Mafon, Cree By receipt of him By balance now owing		100000 100000
	30 O M	- Tone to min	12 5 A 1 1 D	20,00,00
1762		Germain Bell, Gree	ditor,	
Oct.	31	By balance now owing	me — 4	5 00 00
1762 Aug.		Thomas Richards, C By flock now owing hi		60 00 00
		(to 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	one of	
1762 Aug		John Fair, Credi By flock now due to b	tor,	50 00 00
	-	A Company		

224	Book-Keeping.				
	Ledger. 3.				
1762 Aug. Sept.	Richard Heghs, Debtor, To merchandize fold him To ditto To ditto, a parcel To ditto, a garder To ditto, a garder To ditto, 13 ells of cloth	1 1 1 1 - 1	5 0 1	05 07 18 5 12	06 04 00 06
1762 Aug.	Anthony Coule, Debtor. To merchandize fold him To ditto, a parcel To ditto, a parcel	1 1	0	16 04 16	00
1762 Aúg Sept.	John Gray and comp. Debtors 5 To merchandize, a parcel 6 To ditto, a parcel	1		01	03
Od.	Thomas Wilfon, Debtor, 17 To merchardize, a parcel	1 1	37	13 17 16	06

		Book-Keeping			2:	25	
Total or		Ledger. 3. Lal					
762 lug lept.	8 1	Richard Hughs, Creditor, 3	1		5. 00 0		
0 1 0	Service with the	By balance now owing me —	4	I	15!		
508	The state of the state of	(one Belly, Debtor,	0		2.0	na ac	
ent.	12	Authory Coule, Creditor, By receipt of him By ditto	I	2	96 00 00	22	
-	-	Balance Balance	ig.		100	-	
	1	ences, & r. Straght here :	0.00	8	1.0	0	
ept.	16	John Gray and comp. Creditor, By receipt of them By ditto By ditto	1 1	2	10	6 3 3	
The second		By balance now owing me-	4	4	06	00	
1	-	Thomas Wilfon, Creditor,	A 10 10	13	17	00	
762 ug.	20	By receipt of him ———————————————————————————————————	1 4	46	13	00	
	10	4/ 3		51	06	10	

226	Book-Keepings	t.			
1	Ledger. 4. bol		- cations	Section 2	
Sept.		I.	1 5	15	00
117	balance now owing me; — [1]	I	1	3	-
2762 Sept 3	John Biddy, Debtor, To merchandize, a parcel	IA	-	8	00
0 00	original of mind to discount of the control of the	9 9	CO 10 10	Statement of the contract	108
2702 OS. 3	Peofit and lofs, Debtor,	2	80	19	00
2000	conficient and compact for shows	7 4	97	10	00
1762 Oct. 3	To receipts, or cash resting —		297		I
00.00	To Germain Bell, ditto To Richard Hughs, ditto To John Gray and comp. ditto To Thomas Willon, ditto To Anthony Coule, ditto	四四四四四	46	12 11 13	600
(p1)00			-	1:	-

By flock, for its neat-

Directions for Book keeping.

Quest. H Aving taught me how to state, post, and balance my books, what mothed must be at the going out of these books into others?

And w. From the balance of these books (see ledger, fol. 4.) you must draw out another inventory, as follows:

The INVENTORY.

Have in forts, to the dash,	London, October 31. merehandize of fundry to the value of or ready money — 297	16	07
	Owing to me, by		

Owing to me, by

	3 8	
George Mason 10	00	00
Germain Bell 5	100	03
Richard Hughs - 5	12	66
John Gray and company - 4	II	00
Thomas Wilfon 46	13	60
Anthony Coule - 00	10	00
	-	-
720	II	00

Owing by me, to

Thomas Richards In 20 09 00 on Fair 100 00 00 on My near flock 685 11 00 00

And post it into your new ledger, as by the directions given for the posting your other inventory

In the of h book, on debtor fide (for inflance in the month of August) are figures just before the money lines, as I before 180% and 3 before 41, &c. I define to know what shofe figures thew.

A The figure 1 (before 1801 in the first line) shews the folio of the ledger, on which the accompt of stock stands.

The figure 3 following Richard Hughs, in the next line, shews the folio of the ledger, whereon the accompt

of Richard Hughs Stands.

The like is to be understood of the figure 3 following Anthony Coule: the 3 following John Gray and company: the 3 following Thomas Wilfon, and the 4 following Henry Trap, on debtor fide of the faid cash-book for the month of August, and of those on debtor fide, of the faid book for the months of September and October.

What do the figures (on the creditor fide of the faid cafh-book) which come just before the money lines flue ? For inflance, in the month of August on creditors fide, of the figure 2 following Thomas Richards just before the 204, and the 2 following John Fair, just be-

fore 10%.

A The figure 2 following Thomas Richards, fliews that his accompt flands in ledger, folio 2. And the 2 following John Fair, fliews that his accompt flands also in the faid ledger, folio 2.

. The like is to be understood of the figures 2, 2 on

creditor fide of the cash book for September.

And of the figures 2, 2, 2 on creditor fide of the cash book for October.

Q What does the L. 57: 3: 10, at the foot of the debtor fide of the cath book for the month of August,

Thew.

A it shows the total sum received during the month of August, and is produced by subtracting the 180-L in also fitted line from the L. 237: 3: 10, on the debter of that accompt.

The like is to be understood of the L. 69: 18: 8, at the foot of September, and of the L. 67: 8: 7, at the

Foot of Ochobe

And as those sums show the total receipt during each month, so the sum 30 I on credit side of the cash book of August, the sum of 1sf for September, and the 62 or O'Clober, show the total payment during each of those sonths.

2 How is the balance (or rest of money) in cash

found.

A You must subtract the 30 l (on credit of August's cash book) from the L, 237: 10, on the debit side, and the remainder being L, 207: 2: 18, the balance, or rest of money, in cash, which placed under the 30 l paid, and added to it, makes a just balance with the debtor side. See the cash book for the month of August.

You are to do in the like manner to find the balance, or refls of cash for the months of September and Odo.

ber. See the cash book for these months.

Q What does figure 3 against Richard Hughs (in the day book) and the 3 against Anthony Coule, and the other figures in the margin of the day book, shew.

A They shew the folios of the ledger whereon the accompt of Richard Hughs, Anthony Coule, and the o-

ther accompts fland.

And also finew that these persons or accompts are debtors; as the figure; under the small line of the margin, and at the foot of each page of the day, book, just against the words merchandize fold, shows that the accompt of merchandize stands in the ledger, on folio 1, and is creditor.

2 What do the figures in the ledger coming just be-

fore the money lines on debtor fide, thew.

As the words of each line on the debtor fide of faid ledger, immediately following the word to, thews what accompts or petrons are to be credited, or counterparted, for those figures flew on what folios in the ledger

D What does the figures coming just before the mo-

ney lines on the creditor fide of the ledger thew.

As the words in each line on creditors file of the faid ledger immediately following the word by, flews what accompts or perions are debited or counterparted, so those figures flew on what folios in the ledger those accompts or perions are to be found.

9 How mult I enter the goods I bay.

A You must enter them in a bought book: as for instance.

Merchandize debtor to perfons.

Bought I sonsons seil Of (fuppose) Richard Thomas, viz. 56 ells linnen, at 217 L 6-18-0 per ell . . . 52 ells ditto, at 40 10-08-0

____L. 17-6-0

This article (and others of the like nature) mult be polled in your ledger, to the credit of the accompt of the persons of whom bought, here Richard Thomas : and the total of each page in the bought book, must be posted in the faid ledger to the debit of accompt of merchandize.

I have been told that a good method of bookkeeping will shew the owner of the books or others concerned, these following necessary (and many other) particulars, viz.

Concerning merchandize.

No 1. What goods (during the whole, or any time of the accompt) have been bought, brought into charge when, of whom, and at what prices,

2 What goods (as above) have been fold, iffued out of the charge, when, to whom; and at what price,

3. The whole quantity bought and fold, and the prafit, or lofs, arifing on those so disposed of.

Concerning cash or money. 2. What fums of money have been received (as above) to whom, and on whose account. Also whether in part or in fell.

5. What fum total has been received and paid (during the whole) or during any time as above, and confequently the fum refting in cash.

Concerning persons with whom I deal. 6 For what fums they stand indebted, from what

dates, and fer what. 7. For what fums I fland indebted to them, from

what dates, and for what. 8. Whether any balance, or remainder, be due from shem to me, or from me to them, and what fum.

Concerning my expences.

 What expense I have been at (during the time of the accompt, or any part of it) and fach expense confidered and allowed; then what neat gain or lofs has attended.

Concerning my flock.

10. What flock I began with, and what my present flock is, and what particulars composed each.

Now I defire you to they me how this method will

answer all these particulars.

A Concerning merchandize, your bought book will shew you the particular demands of numb. I

And your day book those in numb. 2.

The debtor fide of accompt of merchandize in your ledger will fine who whole quantity bought, and its creditor fide the whole quantity fold, and the fame accompt finews you all o'the profit and-lofs ariling on those you have diffosed of. See the accompt of merchandize in ledger, folio. 10 thus the demands of number 3, are flown.

Concerning cash or money, the debtor side of your cash book answers the daminds in number 4, and the creditor side of the faid book stews the demands in number 5, and consequently those in number 6, by comparing the debtor and creditor sides.

The creditor-fide also of the faid book, shews the ba-

lance (or reit that should be found) in cash.

Concerning persons with whom you deal.

The debtor sides of their accompts shew the demands of number 6, and creditor sides those of number 7.

And confequently their accompts compared in debtor

Concerning your expences.

The accompt of expences in your ledger shews your expences, as in number 9. and the accompt of profit and lofs, will shew the neat gain or lofs.

Concerning your stock.

The accompt of flock in your ledger flews what you began with, and the accompt of balance flews your prefent flock, and of what particulars it confilts, and answers the demands in number 10.

Accompts ready cast up:/ 233

The Price of the Commodity by the Tun, Hundred,

Pound, Ounce, Dozen, Yard, Ell, &c.													
	Numb	I F	arti	bing	. 13	Far	this	ngs.		3 F	arti	hing	50
	180	1.00	s.	d	q.	1. 8	-	d. c	1.	1. s		d.	q.
Meafure	0000	-	-		-				-		-		_
fea	1	0	0	0	1	0	0	0	2	0	0	0	3
or N	2	0	0.	0	2	0	0	I	0.0	0	00	1 2	2
	3 4	0.0	0	0	3	0	0.0	1 2	2	0	0	3	0
Weight,		0	0	I	I	0	0	2	2	. 0	0	3	3
Vei	5	0	0	I	2	-0	o.	3	0	0	0	4	2
12	7.8	0	0	I	3	0	0	3	2	0	0	5	I
ber		0	0	2	0	0	00	4	C	0	0	6	0
an	9	0	0	2	-1	0	0	4	2	0	0	0	3
Commodity by number,	10	0	0	2	2	0	6	. 5	0	0	0	7	2
V b	20	0	Q	5	0	0	0	10	0	0	E	3	0
dit	30	0	0	7	2	0	I.	2	C	0	I	10	2
Ditt	40	0	0.	10	0	0	1	8	0	0	2	6	0 2
Om	50	00	I	0	2	0	2	6	6	0	3.	9	0
	1000	0	I	5	2	0	2	11	0	0	4	4	2
an	80	. 0	. I	8	0	0	3	4	0	0	5	0	U
in g	90	0	I	10	2	0	3	9	C	0	5	7	2
buying or felling any	100		-	-				-	~		6	_	-
00	100	0	2	1.	0	0	48	2	0 0	0 0	12	3	0 0
100	300	0	6	3	0	0	12	6	0		18	9	.0
IΛΩ	400		8	4	0	0	16	8	0	I	. 5	ó	0
10	500	0	10	5	0	I	0	10	C	1	11	3	0
100	700		12	6	0	I	0	0	0		17	6	
n n	800		16	8	0	1	9	4	.0	2	3	9	0 0
cart up for	900		18	9	0	I	17	6	C	2	16	3	0
		-		-	-	-			-				
Accompts ready	1000		0	10	0	2	I	8	0		2	6	
135	3000	2	I	8	0	4	. 3	4	0	6	5	0	0
m'u	4000		3	4	C	8	5	. 8	.0	9	7	6	
CCC	-5000		4	2	C	10	8	14	0	15	12	6	
15	10000		8	1 4	- (20	16	. 0	€	31	5	0	
1835					3	1 0				1	-		

234 Accompts ready cast up

The Price of the Commodity by the Tun, Hundred, Pound, Ounce, Dozen, Yard, Ell, &c.

	Numb	I Penny.	2 Pence	3 Pence.
	1	l. s. d.	s. d.l.	s. d.
ght or fold.	3 4 5 6 78 9	0 0 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6 0 0 7 0 0 8 0 0 9	0 0 2 0 0 4 0 0 6 0 0 8 0 0 10 0 1 0 0 1 2 0 1 4 0 1 6	0 0 3 0 0 6 0 0 9 0 1 0 0 1 3 0 1 6 0 1 9 0 2 0 0 2 3
The Chanties of the Commodity to be bought or fold	10 20 30 40 50 60 70 80	0 2 0 0 3 4 0 4 2 0 5 0 0 5 10 0 6 8	0 3 4 0 5 0 0 6 8 0 8 4 0 10 0 0 11 8 0 12 4	0, 2 6 0 5 0 0 7 6 0 10 0 0 12 6 0 15 0 0 17 6 1 0 0 1 2 6
The Oughtry of th	200 200 300 400 500 600 700 800	0 16 8 1 5 6 1 13 4 2 1 8 2 2 10 6 2 18 4 3 6	1 13 4 2 10 0 1 3 6 8 4 3 4	1 5 0 2 10 0 3 15 0 5 0 0 6 5 0 7 10 0 8 15 0 10 0 0
	1000 2000 3000 4000 5000 10000	8 6 0 12 10 0 16 13 0 20 16	4 8 6 8 8 16 13 4 15 0 0 4 13 6 8 8 41 13 4 1 13 6	12 10 0 25 0 0 37 10 0 50 0 0 62 10 0 125 0 0

Accompts ready cast up.

The Price of the Commodity by the Tun, Hundred, Pound, Ounce, Dozen, Yard, Ell, &c.

-	Num	5 A	Pence	0,10	1 -	Pen	00	16	Pence	-
	-	1		_	13			101	ence	
	1	1.	s-	d		S		1.	S.	d.
aght or fold.			000111112223	420 400 0 400 0 4	000000000	000112222333	10 38 16 11 49	000000000	0 1 1 2 2 3 3 4 4	606060606
Commodity to be bought	36 49 50 66 70 86		6 10 13 16 0 3 6 10	80 0 480 0 480 0	0 0 0	8 12 16 0 5 9 13	468100246	0 0 1 1 1 1 2 2 2	10 15 0 5 10 15 0 5	0.0000000
The Quantity of the	100 200 300 400 500 600 700 800 900	3 5 6 8 10 11 13	13 6 0 13 6 0	400 0 400 0 400 0	2 4 6 8 10 12 14 16 18	3 5 6 8 10 11 13 15	8,408 408 40	2 5 7 10 12 15 17 -0 22	10 0 0 10 0 10	000000000
000000	1000 2000 3000 4000 5000	66 83	13 6 0 13 6 13		20 41 62 83 64 68	16 13 10 6 3 6	3	25 50 75 100 125	000000	000000

236 Accompts ready calt up.

The Price of the Commodity by the Tun, Hundred,
Found, Ounce, Dozen, Yard, Ell, &c.

Numb		7 1	7 Pence		8	8 Pence		9 Penc		e
		1.	5.	d.	1.	s.	d. 1		s.	d.
ght or fold.	3 3 4 5 6 7 8	000000000	0 1 2 2 3 4 4 5	7 2 9 4 11 6 1 8 5	000000000	0 1 2 2 3 4 4 5 6	8 4 0 8 4 0 8 4 0	000000000	0 1 2 3 3 4 5 6 6	963096930
The Quantity of the Commodity to be bought or fold.	10 20 30 40 50 60 70 80	0 0 0 1 1 1 2 2	5 11 17 3 9 15 0 6 12	10 8 6 4 2 0 10 8 6	O I I I 2 2 2 3	6 13 6 13 0 6 13 0	8 408 408 40	0 0 1 1 1 2 2 3 3 3	7 15 2 10 17 5 12 6 7	6 0 6 0 6 0 6
The Quantity of t	100 200 300 400 500 600 700 800 900	14 17 20 23	18 16 15 11 10 8 6	480480480	3 9 10 13 16 20 23 26 30	6 13 0 6 13 0 6 13	8 4 0 8 4 0 8 4 0	3 7 11 15 8 22 26 30 33	15 10 5 0 15 0 5	000000000
	1000 2000 3000 4000 5000	58 80 116 145	3 6 10 13 16	480 0		6 13 0 6	8 4 0 8 4 0	37 75 22 50 87 375	10 0 10 0	000000

Accompts ready cast up.

237

The Price of the Commodity by the Tun, Hundreds Pound, Ounce, Dozen, Yard, Ell, &c.

3113	Namb 1	10Penc	0 1	1 1 Pencer			
	244770		-	-			
	0 20	1. s.	d.	1.	S.	d.	
jht or fold.	1 2 3 4 5 6 7 8 9	0 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7	10 8 6 4 2 0 10 8 6	0000000000		76543	
Quantity of the Composity to be bought or fold	10 20 30 40 50 60 70 80 90	0 8 0 16 1 5 1 13 2 1 2 10 2 18 3 6 3 15	48 0 48 0 48 0	0 0 1 1 2 2 3 3 3 4	9 18 7 16 5 15 4 13 2	2 468 0 0 2 46	
The Quantity of th	100 200 300 400 500 600 700 800 900	4 3 8 6 12 10 16 13 20 16 25 0 29 3 33 6 37 10	480 0 480 0 480 0	4. 9 13. 18 22' 27' 32. 36, 41	3 15 6 18 10 1 13 5	8 408 408 40	
	1000 2000 3000 4000 5000 10000	41 13 83 6 125 0 166 13 208 6 417 13	48048	45 91 137 183 -229 458	16 3 10 6	8 4 0 8 4 8	

238 Accompts ready cast up.

The Price of the Commodity by the Tun, Hundred,
Pound, Ounce, Dozen, Yard, Ell, &c.

Numb 1 Shilling. 2Shillings 3Shillings 1. s. 1. s. 1.	gs s.
l. s. l. s. l.	S.
1 0 1 0 2 0	2
2 0 2 0 4 0	6
3 0 3 0 6 0	9
41 0 4 0 8 0	12
5 0 5 0 10 0	15
0 0 6 0 12 0	18
7 0 7 0 14 I 8 0 8 0 16 I	I
8 0 8 0 16 1	4
9 0 9 0 18 1	_
10 0 10 1 0 1	10
20 1 0 2 0 3	0
2 30 1 10 3 0 4	10
40 2 0 4 0 6	0
0 50 2 10 5 0 7	10
60 3 0 6 0 9	0
70 3 10 7 0 10	10
80 4 0 8 0 12	0
90 4 10 9 0 13	10
Pig S	0
200 10 0 20 0 30	0
300 15 0 30 0 45	0
0 400 20 0 40 0 60	0
<u>u</u> 500 25 0 50 0 75	0
	0
700 35 0 70 0 105 800 40 0 80 0 120	0
900 45 0 90 0 135	0
900 43 0 90 0 -33	_
1000 50 0 100 0 150	0
2000 100 0 200 0 300	0
3000 150 0 300 0 450	0
4000 200 0 400 0 600	0
5000 250 0 500 0 750	0
10000 500 0 1000 0 1500	0

Accompts ready cast up. 239
The Price of the Commodity by the Tun, Hundred,
Pound, Ounce, Dozen, Yard, Ell, &c.

Numb 4 Shillings 5 Shillings 6 Shilling 1. s. l. s. l.	gs.
l, s. l. s.	-
S. I. S. I.	
	S.
1 0 4 0 5 0	6 .
	12
	18
4 0 16 1 0 1	4
5 1 0 1 5 1	30
	16
2 7 1 8 1 15 2	2 '
7 I 8 I 15 2 8 I 12 2 6 2	8
Pigg 0	14
50	
10 2 0 2 10 3	0
20 4 0 5 0 6	0
30 6 0 7 10 9	0
\$ 40 8 0 10 0 12 50 10 0 12 10 15	0
50 10 0 12 10 15 60 12 0 15 0 18	0
60 12 0 15 0 18 70 14 0 17 10 11	0
80 16 0 20 0 24	0.
0 90 18 0 22 10 27	0
g 100 20 0 25 0 30	
100 20 0 25 0 30	0
200 40 0 50 0 60	0
₹ 300 60 0 75 0 90	0
80 0 100 0 120	0
8 500 100 0 125 0 150	0
00 120 0 150 0 180 0 700 140 0 175 0 210	0
	0
800 160 0 200 0 240	0
900 180 0 225 0 270	0
1000 200 (250 0 300 -	.0
1 0000 100 1 000 0 100	0
3000 600 0 750 0 900	0
4000 800 0 000 01200	U
5000,1000 (1250 01500	0
10000 2000 (2500 03000	o

Accompts ready cast up. The Price of the Commodity by the Tun, Hundred, Pound, Ounce, Dozen, Yard, Ell, &c.

-	Numb	7 Shill	ngs	Shir	lings	95bili	ing.	10 8	bil.
	115	1.	S.		S	1.	S	1.	s.
	1	1 0	7	- 0	8	0	5	0	. 10
	2	0	1.4	0	16	0	18	1	0
	3	1	ī	- 1	4	I	7	I	10
	4	I	8	1	12	1	16	2	0
		I	15	2	0	. 2	5	2	10
	5	2	2	2	8	. 2	14	3	0
	7 8	2	9	2	16	3	3	3	10
*	8	2	16	3	4	-3	11		0
fold.	, 9	3	3	3	12	4	1	4	10
5							-		-
44	10		10	4	o!	4	10	. 5	O.
bought	20		O.	. 8	0	9	0	10	ó
po	30		IO	12	Q	13	10	15	0
pe-	40		0	16	0	18	0	20	0
0	50		10	20	0	22	10	25	0
y t	60		0	24	0	27	0	30	0
12	79	24	01	28	. 0	.31	10	35	0
non	80	28	0	32	0	36	0	40	0
Commodity	90	31	10	26	0	40	IO	45	0
U	Ioc	35		40	o;	45	0	50	0
the	200	70	0	80	0	90	o	100	0
4	300	105	0	120	0	135	0	150	0 3
1,0	400	140	0	160	0	180	0	200	0
* 275	500	175	0	200	0	225	0	250	0
Quantity of	6000	210	0	240	0	270	0	300	0
0	700	245	0	280	0	315	- 0	350	0
The	800	200	0	320	C	360	0	400	0
F	900	3.15	0	300:	0	405	0	450	0
. 1		-	!-						-
	1000	350 "	0	400	0	450	0	500	0
	2000	700	0	800	0	900		000	0.
	3000			200	0 1			500	0
-	4000	1400		600		800		1000	0
1	5000			000		250		2500	0
-	10000	3500	0.4	.000	0.4	500	05	(00	0

The Price of the Commodity by the Tun, Hundred, Pound, Ounce, Pozen, Yard, EH, &c.

doi4	No.	i Libe	2 Lib.	2 Lib.	4 Lib.	5 Lib.
183	Il negerli	in garaa	8 4.000	Dallo not	1.	1.
E celi	10 170	Toy nun	0 1002	3 1	4	chro 5
ENDIS	2	1100002	4	6	8	IO IO
	3	3	6	91	12	15
	4	4	8	12	16	20
1000			or elle	15	W 20	SK.125
Folic	one price	slope go	12	810 10	24	30
Or	8	7	14	100024	28	35
	or latt	ri baa qa	dat of 8	1 0002710	am(36)	Dal 345
bought	197 16 1	s gnijo	ns 120	101 120	TOSTON	pno 143
poq	20	20	40	12 166	07 8080	100
14	חבת יופסה	more colum		100 981	100120	150
0	40	00040	1 80	120	160	nidi200
	50	50	100	150	200	250
Commodity	60	60	120	180	240	300
100	70	70	140	210	280	350
E	80	80	160	240	320	400
	90	90	180	279	1360	450
the	100	100	200	300	400	500
1 10	200	200	400	600	800	1000
	300	300	600	900	1290	1500
1	400	400	800	1200	1600	2000
Manuty	500	500	1000	1550	2000	2500
	600	700	1200	1800	2400	3000
116	800	800	1400	2400	3200	3500
1	900	900	1800	2700	3600	4500
0 2	1000	1000	2000	1 3000	4000	5000
10	2000	2000	4000	6000	8000	10000
1	3000	3000	6000	9000	12000	15000
+100	4000	4000	8000	12000	16000	20000
106	5000	5000	10000	1 15000	20000	25000
1	10000	10000	20000	30000	40000	50000
0 7	1				The same	

The use of the foregoing Tables.

These tables will serve for many uses; but that which they'll be most used about, as being most necessary, is to find out the true account of any number of ells, yards, or pounds, being fold for so much the ell, yard, or pound.

Example, What will cooo ells of linnen, at 11 pence the ell come to? To find this. First llook to the price of the ell at the head of the table, then look down the side of the table for the number of ells, so you shall find in the last loom must be not the table, and it whe last line but one thereof that Sooo of any thing at 11 pence a piece, comes to 2296, 31, 43.

If you cannot find your price in one column, or number of things in one line, you must take two or three parts

thereof, and add them together.

Another Example.

What will 1500 ells, at 52 come to In the table of nine pences you find,	S.	da
For 1000 nine pences 37	10	0
For 500 nine pences 18	15	0
In the table of half pence,		
For 1000 halfpence 2	I	8
For 500 halfpence	0	10
ore and long out to to	7-	6

MPENDIUM Canada area and a control of the con

GEOGRAPHY:

Describing all the

Empires, Kingdoms, and Dominions,

Whole WORLD.

Shewing their

Bounds, Situation, Dimensions, Religions, Languages, Commodities, Divisions, Rivers, Mountains, Lakes, &c. &c.

To which is prefixed,

10 00 EF 0 75 10 04 00 \$210 0 0 15. 014 Method for Jearning Geography without a Mafter, for the Use of fush grown Personeras have neglected s this ofefal Study in their Youth, 100 1 15 do ac ac o ro ad ce co d:

Table hewing the Parallel of Latitude, the Breadth. o and the Length of the Day in every Climate. V da a most plain and casy Method. 1

To learn Geography without the Directions of a Master.

THE person who defines to learn Geography, must have a fet of maps, and, after reading over the fituation of each empire. See he should be very exect is finding but in the mip, the leveral places mentioned therein; and thus by reading each article several more over, and comparing them with the maps, any grown person may from may from the most remarkable places in the world, their fittation, boundaries for each will infensibly, by degrees remarked its hards of them.

The following maps, which may be purchased at a small expense may be sufficient to instruct any reader, and render this treatise easy and intelligibly, viz.

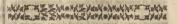
The World, Europe, Afia, Africa, North America, South America, England, Southand and Ireland.
This highly necessary, that the different parts of each

of those maps should be distinguished by different colours, or at least by points or lines.

A Table hewing the Parallel of Latitude, the Breadth, and the Length of the Day in every Climate.

	Climates betwixt the Equator and the Polar Circles.										
mates	Paral.	Bdth	Day.	Clim	Paral.	Bdth	Day-				
0,	D. M.	DM	H. M.	10	D. M.	DM	H.M.				
- 3	8 34	8 34	12 30	13	59 59	1 33	18 30				
2	16 43	8 09	13 00	14	62 18	1 19	19 00				
3	24 11	7 28	13 30	15.	62 25	1 07	19 30				
4	30 47	6 36	14 00	16	63 23	0 52	20 00				
5	36.30	5 41	14 30	17	64 16	0 53	20.30				
6	41 22	4 52	119 00	18	04 55	0 39	21 00				
	45 29	4 07	15 30	19		0.30	21 30				
5	47	3 32	16 00	20	65 47	0 22	22 00				
	51 58	2 57	16 30	21	66 06	0 19	22 30				
	54 29	2 31	17 00	22	66 20	0 14	23 00				
11	56 37	2 12	17 30	23	66 28	1	24 00				
12		1 49	18 00	124	1.06 31	10 03					
	Climates between the Polar Circles and the Poles.										

167 31 1 00 1 1 Mo 4 78 20 5 00 4 Mo 269 31 2 00 2 Mo 5 84 00 5 40 5 Mo 773 21 3 50 3 Mo 6 90 00 6 00 6 Mo



Description of the World.

Eography is a fcience which teacheth the defcrie-I tion of the earth. It differs from Colmography as a part from the whole, and from Chronography and

Topography as the whole from its parts.

The earth is a spherical body, which together with the water make up one globe of fo perfect and exact a form. land fo beautified and adorned by the God of nature. that fom its elegancy and beauty, it was called by the Greeks Kongoc; and by the Latins Mundus.

It is fituate according to Ptolomy and Tycho, in the center of the universe, but according to Copernicus, best ween the orbs of Mars and Venus; its fubitance for wonderful, as may well express that unlimited power hat performs infinitely beyond our imagination.

As to its magnitude, it is 21600 miles in circuit, falowing, according to the vulgar account 60 to a degree) s'diameter 6874 miles ; its femidiameter 3416 : its fuwerficies in square miles 1485 10584, and us folid conent 169921796242 cubical miles.

For the better understanding all its parts, it may be livided into four general heads, viz. 1. Its imaginary arts : 2 its real parts ; 3. in respect to its inhabitants : bd, A, its national parts,

1. Imaginary Parts,

The imaginary parts are only fupposed, for the clearer inderstanding of this science; they are, 1. Poles, 2. Arcles, 3. Zones, and, 4. Chmates. 1. The poles are the extream points of the axis, which is fuppoided to pask through the center of the earth, and on whach it is fuppoided to more daily about. They, answer to the poles of the Beavent, (as the other imaginary parts) being the fartheft diffant from the Equator; in number two, viz. 1. The article, or north pole; and, 2. The articlet, or fourth pole.

2. The circles are divided into the greeter and leffer: the greater divide the world into two equal parts;
number four, wize I. The capator, compaling the earth
equally between and further from the poles; when the
fan is here, the days and nights are equal 2. The Zodiack (in which is the Eeliptic) cutting the Equator obliquely, through which the fun paffas in a year. Thete
two are immoveable. 3. The horizon, dividing the
visible parts of the heaven from the invisible. 4. The
Meridian, dividing the horizon into two equal parts;
when the fun is here it is noon. These two are invovaable.

The letter circles divide the world into two unequal parts; they are, 3. The Trapics, which terminate the fun's diltance from the capturos, being 23 degrees and a half from it; when the tag is here it is either fammer or winter. They are two, viz. of Cancer, on the porth, and of Capricorp on the offour did of the equator. 2. The polar, Circles, 66 degrees and one half of the Equator, and 23 and none half of the Degree they are called the Arche and America circles, 2. The Parallels, which are parallel to the Equator, let in maps to fine the haltingle, as the mendian lines are to thew the longitude of paces, (Noyer, That the Lattinude is the diltance from the capator, and longitude from the further than the capator, and longitude from the further wides.

3. The Zones are certain finaces of earth included between two laffer circles. In number five; viz. one torrid Zone, which lies between the tropics at two temperate Zones, between the tropics and polar circles; and two frigit Zones, between the polar circles and the first Zones for the control of the cont

poles.

4. A Clime, or Climate, is a space of earth, between two parallets, in which the longest day is increased half an hour; as for example, in the first Clime, the longest

day is 12 hours and a half; in the fecond 13 hours; in the third, 13 hours and a half, see they are in number 24 that is from the equator to the polar circles.

2, Real Parts. , Epitioupo

Those occurding to their fluiditions of St. Marine, and p. Africa, and p. Africa,

15. Water is divided intoy to Ocean, balled a general collection or rendezvous of all weeters; giving bounds to the regions of the earth. 2 Sea, a part of the ocean incompation with land, except one thright, such as the Meditersnean and indict. 3. Stright, is prived the ocean, retlrained inconarrow bounds, specing the way of fea, as those of Magalonies and Gibralist. 4 Lakeral Large, space of water, sholly exceoming the will land, as Pasima and Zaire. 5. Creek or Gulfs, ercocked flore, thrulling forth as it were two arms to hold the fea, as those of Venice and Lepanto; as for Rivers, Ditches, Brooks, Fountains, &c. they need to defeription.

2. Land, divided into, is Contineors, a valt trad of and where many nations are joined together, as Fusions, Alia, &c. 2. Illand, a space of land wholly insompassed withsen as Britaino, Japan, &c. 2. Pennifolia, space of land encompassed with sea except one small sart, as Morea, Malacea, &c. 4. Hithmus is that space stand that joins a penissical to a continent. 5. Promotory, a mountain smooting titell into the fea, the and of which is called a Cape, as the Cape of Good Lope, Cape Verd, &c. As for Montaina, Rocks, Vallys, Fields, Forests, Woods, Phins, &c. they are all linows.

The earth is divided in respect of its inhabitants into me right hand and lett. 1. To poets the north was sounted the right hand, and the fount the lett. 2. To wells, the south is the right hand, and the north the fit. 3. To Altronomers, the well is the right hand, d the east the left, And, 4 to Geographers, the east

is the right, and the west the left. The inhabitantsthemselves are dislinguished; 1. In respect of their Situation, 2. According to their Shadows. 3. Surespect to the position of the globe. And, 4. according to the countries.

2. Those according to their fluations are divided into, it, Autuci, which I yunder the same meridian, and same longitude, but on different sides of the equator; 2-Periesci, which live on the same sides of the equator, and the same situate, but on opposite sides of the globe, 3-Autipodes, that live diametrically opposite to each other.

2. Those according to their shadows, are divided into, 11 Amphifoit, (called also Afeit) who live in the Torted Zone, whose, shadows, tend both ways. 2, Petifeli, which live in the Frigid Zones whose shadows trend all ways. 3 Heterockin, in the Tripperate Zones,

whole shadows tend one way. I amis has miss's

3. Those according to the position of the Globe, are dillingussided into, r. Such as live in a Right Sephere, (under the Equator) where the stars rise and fevt ar right angles. 2s. Such as sive in an oblique sphere, (between the Equator and Poles) where the stars rise and set obliquelys 3s. As live in a Parallel Sphere, (under the Poles) where the stars are always parallel to the Horizon.

4. Those according to the countries, are distinguished into a great many nations and people, as French, Spaniards, Italians, Germans, &c. all which shall be more particularly treated of hereafter.

The sta year and a. National Parts, Lore L ableid avel

The earth in respect to its countries is divided into foundation parts, viz 1. Europe, 20 Alia. 3. Africa, and, 4. America; to which may be added, 5. Terra bornalis incognita, and, 6. Terra half-alia incognita, Those are divided into Empires, Kingdoms, Regions, Contries, Nations, &c. Subdivided into Provinces, Governments, Profectares, Circles, Tertitories, Districts, &countries, &c.

As for the Empires, there are the of Special one ar prefent, viz. Turky, Ruffin, Perfin, Tartary, India, and Ambiffina; to thefe we may add these others that go by the fame, viz. Germany, Morocco, Honometops, The defenjives of thefe, with the kingdoms, inferior provincts, and fovereigntics, is the man-delign of this compendum.

Constrict 4re for the most part divided according to princes dominions (but not always 6s.) they are in-parted from each other, a Sometimes by fea, as Germany, and Denmark from Swedeland, 2 Sometimes by rivers, a Natolia from Tarcamania, 3. Sometimes by mountains, as France from 8 Spaia, 4. Sometimes by whalls, as China from Tartary, and 5, Sometimes divided only according to the towns and fosts of the princes, as France from the Low Countries. Thus much for the world in general.

A Description of EUROPE.

H E continent of Europe is fituated between 36 and 72 degrees of north latitude, and between no degrees well, and 65 degrees of caltern longitude, being bounded by the frozen ocean on the north; by Afia or the calt; by the Mediterranean fear, which leparates it from Africa on the fouth; and by the Atlantic ocean on the well.

or This continent with its illands, is divided into three grand dividions, viz. the northern, containing Ruffie, if Molecoy, Sweden, Denmark, and Morway, Great British and its illands, Iceland, Greepland and the oldands of the Bultic.

The middle division considered Poland, Germany, and the adjoining hereditary dominious of the house of Austria, the Low Concrices, or Netherlands, France, and its conquests on the Rhine.

The fouthern division contains Tarky in Europe, the tributary provinces of Moldavia, Walachia, the Erim and leffer Tartary, Switzerland and their allies,

Italy; Spain, Portugal, and the islands in the Mediter-

Ruffia, or Mofcovy, contains a very large part of Rurope but though the north is but little inhabited. as producing few o the peceffaries of life, yet many of the middle and fruthern provinces are as fruitful as any in Europe, producing every species of corn and fruits which do not require a very warm climate. The inhabitants were civilized, and from Barbarians, were, in force preafure: made a warlike and industrious people, by the conduct and example of Peter the Great. But they have not yet learned to trade much in their own bottoms, their goods being exported in foreign thipping; from which also they receive the produce of the fouthern countries of Europe. Our Russia merchants export thither coarse woollen cloths, long ells, worlted, ituffs, tin, and tobacco; and from thence import hemp, flax, coarfe linnen, linnen yarn, Ruffia leather, furs, tallow, iron, and pot aftes. The dominions of the Ruffian Empire extend far into Alia, and even reach to the pacific ocean, being in length from east to west upwards of 2000 miles, and 1500 in breadth from north to footh, The government is arbitrary and desputies and their religion, that of the Greek Churchaille la complete a long flow manes as

Sweden is a cold country, encumbered with barren rocks and mountains, and a oreat part of the year covered with fnow; it has few havigable rivers, but abundance of torrents, which running precipitately from, their rocks and mountains, after a fiort course, run into the Baltic feat, which is frozen up four or five months in the year. The country is filled with great lakes and matthes: Lapland and the northern patt produce fcarce any vegitables, but between the mountains there are fruitful valleys. The riches of this country chiefly confits in their mines of fiver, copper and Iron. They export from Sweden hard-ware, pitch, tar, rolin; mafts, deals, and wooden ware : and import thither filles, fluffs; wine, brandy, fugar, fpices, tobacco, linnen, paper, and haberdashers wares. Their trade to England has been hithertomost advantageous, the English taking the produce and manufactures of the coun-

try, and giving them near two thirds of filver in return : but the encouragement new given for importing hon from New England, must put a stop to a commerce for difadvantageous to us. The inhabitants are protestants of the Lutheran perfusion.

Denmark confifts of Jutland, the illands of Zealand and Punen, and the little iffands about them. The neninfula of Jutland was antiently called the Cimbrian Cherfonese, or the peninsula of the Cimbri. The country is generally flat, barren, and fandy; and the air is commonly thick and foggy, occasioned by the leas which almost forround it, and by the numerous akes in the heart of the country; however, in some parts there is plenty of corn and pasturage. Its chief commodities are fish, furniture for ships, ox hides, talow, fir, wainfoot, &c. The longest day is seventeen hours and an half, and the fhortest eight and an half, Their kings have been fometimes, hereditary, and at others elective : and fometimes limited, and at others blolute, as they have been ever fince the year 1660. when the peafants, groaning under the oppressions of he nobility and gentry agreed to make the crown abfolute and hereditary; they were joined by the clergy, and the king having affembled the nobility and gentry a partificated town, in a manner compelled them to that of Norway, which is subject to Denmark, and he church lands being feized by the government at the eformation, the Clergy depend on the state for their Bliffance:

Norway is extremely cold and barren, and on that recount is but thinly inhabited. The poor people dry heir flock fift, and use it inflead of bread. Their chief primodities are flock fish, furs, train cil, patch, masts, ables, and deal boards, which they exchange for corn. ine, fruits, and the other necessaries, and convenien-

es of life.

As to the illands of Greenland and Iceland, they are old miferable countries, and but thinly inhabited.

As we are most concerned in the history of Great ritain and Ireland, we shall give a more particular pfcription of them, and place it in an article by itself.

We shall now treat of the middle division of Europe Poland is a large and level country, being 660 mile in length from north to fouth, and 560 from east to It is a flat level country, well systered by lake and rivers, the land fruitful, and producing great quan sities of wheat and ryb; with rich meadows and paffures which fred wast flocks and herds of cattle : it abound with wax, pitch, falt, foap, rolio, flax, butter, cheefe gorn, and tich furs. The povernment is an elective mo parchy, but the king is fo reffrained by laws, that he has tittle elfe belides the fladow of royalty; and while the nobility and gentry are absolutely free, the people are in the most abject flavery, without property; or any thin! they can call their own. The nobility and centry, who are their landlords, or rather mafters, are all as defootias kings, and have the liberty of doing what mischie they please: they pay only an inconfiderable fine for raking away the life of a tenant; they feize and deffroy at pleafure, fo that, under the appearance of freedom this feems to be the worlt conflitution on earth. As the whole nation is composed of absolute masters and abject flaves, the latter are only employed in cultivation the earth; all the manufactures necessary for the country are carried on by fercioners, and in general by the Iews. who are almost the only people who keep shops, and work at trades. The religion of the country is that of the Romish profession, but Jews and protestants are toderated. The metropolis of Poland is Warfaw, a large and populeus city.

Germany is generally on the north and eatl, a level, country confitting of barren fands, or marthy grounds; on the fourth it is encumbered with the mountains of the Alps, but in the middle there is a variety of falls, valleys, trairful fields and madows, more particularly along the banks of the khine, the Danube, &c. and is advanced with abundance of fine cities, adlets, and palaces. This valt country is divided into ten circles, viz, there'on the borth, the circles of Upper and Lower Saxony, and that of Welfphalia. Three on the fouth, the circles of the palaces. The value of the circles of the circles of the circles of the circles of all the circles of a fine on the fouth, the circles of the circles o

which formerly confided of the dutchy of Burgundy, and the 17 provinces of the Netherlands; but thefe laft have been long fevered from the empire. There are in Germany unwards of three hundred fovercion princes and flates, most of them arbitrary within their own territories. The emperor is the fountain of honour, and difposes of almost all these places that are not hereditary. and which have a relation to the government of the whole empire. When an emperor dies, his fuecesfor is chosen by the nine electors; but if a king of the Romans has been chosen in the preceeding reign, he succeeds of courfe. By the golden bull, the person elected ought to be a Christian prince, of German extraction. and 28 years of age. Before he is installed, he figns a capitulation prefented him by the electors, princes, and flates of the empire; that he will not alienate the lands or revenues of the crown, introduce foreign, forces, or employ foreigners in his service. In return, they are all obliged to affift him, and to join their forces in a time of common danger, and to maintain them at their own expence; and, supposing them unanimous, they are able to raife and pay 500,000 men. The people are of various opinions in religion; the principal fects are those of the Papifts, Lutherans, and Calvinifts; and there are also Independents Baptists, Quakers, the Moravian brethren, &c. but the emperor is always a Papift. Germany produces corn, wine, oil, bacon, beer, mum, flax, hemp and fine timber; also black cattle, sheep, and excellent horses. They have mines of iron, copper and filver, of which the filver mines of Hanover are of more value than all the other filver mines in Europe put together. They have also lead, falt, coal, vitriol, quickfilver, nitre, oaker, and fulphur. The people are exceldent artifls, and are remarkable for their honelty and fincerity, in their dealings. Vienna is the metropolis of the German empire, and the feat of the emperor.

The hereditary dominions of the house of Austria, are Bohemia, Hungary, Transilvania, Sclavonia, and Cro-

The Netherlands are only about 300 miles long, and 200 broad; these contain seventeen provinces, of which seven are possessed by the Dutch, and are called the U-

nited provinces, and the others are called the Aufrian and French Netherlands. The names of the united provenifel, Gelderland, Zealand, Friezland, Groningen, Ovenifel, Gelderland, Zuphen and Utrecht. The other ten provinces are Brabant, Flanders, Hainalt, Limburg, Luxemburg, Namur, Artois, the Cambrefis the Marquifact of Anwerp, the Lordfhip of Mallines, or Mechlin. Of thefe the French polifels the entire provinces of Artois and Cambray, part of Flanders, Hainalt, and Luxemburg; the Dutch the north of Brabant and Flanders, and all the refl are followed to the Nore of Aufrias.

France is one of the most flourishing kingdoms in Eurone, but is not fo populous as Germany. The foil is exceeding fertile, producing corn, wine, oil, filk and flax in great abundance, and is extremely well fituated for a foreign trade, as it lies on the Atlantic ocean, the Englift channel, and the Mediterranean fea, and is watered by many large and navigable rivers. Their manufactures are of linnen, woollen, filk and lace, with which they trade to Spain, Italy, Turkey, and to the east and west Indies. The air is temperate, agreeable and healthful: the manners of the people are polite, and they are the most active and enterprizing of any nation in Europe. They are under an absolute government, and profels the Romish religion, though they pay less regard to the pope than any other of his children: but, neverthelefs, the protestants, which are here very numerous, fare feldom free from perfecution.

Of the fouthern division of Europe, Turkey is the most easterly, and therefore to preserve the order in which we proceeded with the others we shall begin with

that first.

Turkey in Europe is a very extensive empire, comprehending some of the richelf countries in this part of the world, extending upwards of 1000 miles from east to welf, and 100 in breadth from north to south, with the numerous islands in the Archepelago, or Egean fea; but part of them are in Asia, where, as well as in Africa, their dominions are very considerable. In Europe the Turks are possessed for Romania, Bulgaria, Servia, Boshia, Raguis, Wallachia, Moldavia, Bestarabia, Budziac, and Octakow, Tartary, Crim and Little Tartary.

with Albania, Epirus, Maccdonis, Thefirly, and all the antient Greece. Situated as they are, in the centre of the continent, they might command the trade of the whole world a but this advantage they have folk by their indolence and inactivity, and the destructive maxims of their government. The goods imported from Turkey are traw likes, carpets, goats hair, mobaint, yarm, goats wool, cotton wool, and yaro, dimittes, burdets, likins, cordovants, bluer, red, and yellow; coffee rhubarb, tarpentine, opium, gann fenega, terralemnia, cluna root, and abundance of other drugs swine, oil, figs, raifins, dates, almonds, pilkachio nots, allom, viiriol, boxwood, bees, wax, faifron. Swc. Condinationale is the feat of the

grand feignior, who is an absolute prince.

Italy, has a pure, temperate and healthful air, and the foil is in general exceeding tich, but the people are fo broke with flavery, and harraffed with the tyrannies. oppressions, and impositions of their priests, that it is far from being fufficiently cultivated. It is in length from north west to south east, 600 miles, and upwards, but the breadth very unequal, as it is faid to refemble a boots it is described, as having the top 400 miles broad from ealt to weit; in the calf of the leg, or middle, it is about 120, and towards the inflep 80 miles broad. In the north are the dutchies of Savoy, Piedmont, and Montferrat, fubject to the king of Sardinia; the territory of Genoa, Subject to the Genoese; the dutchies of Milan. Mantua, and the rest of Montferrat, subject to the house of Austria; the dukedom of Mondena, subject to its own Huke ; and the large territories of Venice, lubiect to that republic. In the middle of Italy is the dukedom of Tufcany, subject to the duke of Lorrain; the popes dominions, which almost furround Tufcany; and the state of Lucca. In the fouthern division is the kingdom of Nailes, subject to the king of the two Sicilies. The peosle have a tafte for the polite arts, and excel in archiecture, statuary, music and painting. Our trade to Ialy is carried on by Separate merchants, who export road cloths, long-ells, bays, druggets, calimancoes, amblets, and other stuffs; leather, tin, lead, fish, peper, and east India goods; for which they in return import raw and wrought filk, velvets, wine, oil, foap, or

lives, anchovies, and drugs for dying.

Switzerland is fituated in the valleys between the Alps, the highest mountains in Europe, which, though lying between 45 and 48 degrees of north latitude, are for a great part of the year covered with from, and the air is here much tharper than in countries that Ive more to the north. From these mountains the largest rivers in Europe have their fource. particularly the Rhine, the Rhone, the Danube, the Rufs, and the Inn. Here are alfo extensive lakes, those of Constance and Geneva are each fixty miles long. The foil produces fome corn and wine, but as the fruits of the earth are frequently destroyed by florms, or cold rains, they, to prevent the poor from periffing, in plentiful years, lay up their corn in magazines. They breed and fupply the neighbouring countries with abundance of cattle. They have fome crape and linnen manufactures; but as almost all their cloathing is imported from abroad, they wifely rectify this inconvenience, by retrenching all superfluities. Switzerland is divided into three classes. Switzerland Proper, or the thirteen cantons, the subjects of Switzerland, or the conquered countries, and the allies of Switzerland, as the Grifons, the republic of Geneva, &c. Of the thirteen cantons some are protestant, and other popish cantons, but they all unite against a common enemy.

Spain enjoys a fine air, and generally Crene fettled weather, except in fpring and autumn; the winter is fo moderate in the walkeys, that for nine months in the year they have very little occasion for fires; but in June, July and August, the heats are very troublefome. The foil produces excellent wheat and barley; they have rich pastures, and their wool is the belt in Europe; they abound in witne, oil, and filk, and in oranges, letuours, rashus, citrons, prunes, figs, capers. chefinus, almonds, and pomegranates; they have valuable mines of coppers, lead, allom, and fullyhur, and the iron and fleed of Bifay is reckoned the best in Europe. But, not-withstanding fo fine a country, and the wast treasures they have drained from their American mines, Spain is proor, and but thinly peopled; but their poverty may

be, in a great measure, ascribed to their pride and indolence. Their land is cultivated by foreigners, and
they export great part of the produce of their country
unwrought. Those of our merchants, who trade to
Spain, export broad cloths, druggets, bays, long elfs,
calimancoes, and other suffit, long, lead, leather, tills,
corn, hole, and labet delivery wares, and from thence
import wine, oil, salt, and fruit. It is computed that
from that of any other nation, except the Portugueze.

Portugal is the most westerly kingdom in Europe, being about 200 miles long, and 100 broad; it is neither to hot nor to fruitful as Spain, and is encumbered with fome of the most barren and unprofitable mountains; which, however, towards the bottom, being planted with vines, produce most excellent wine; and though the foil produces plenty of olives, as well as oranges and lemons, yet they have not corn enough for their fublillance. The foreign trade of the Portugeze confills either in the exportation of the produce of their own foil, or in the merchand ze they receive from their fettlements in Afia, Africa, and America. There is no country to which the English trade to greater advantage; for though we import the greatest part of their wine and fruit, they take our woollen manufactures in return. The inhabitants of Spain and Portugal are the most bigotted Papilts in Europe.

A Description of ASIA.

A SIA is fituated between 25 and 148 degrees of calldegrees of nontrade, and between the equator, and 72 degrees of north latitude, being busined by the frozon occan on the north, by the Architectago, the Eustine Ica, Re, which feparates it from Europe on the north, well 5 yet he Red Ica, which feparates it from Africa on the outh well; by the Indian occan on the fourit; and by the pacific occan on the edit. This quarter of the world is thrown into three grand distincts, the first containing the empire of China, Chinelian Tartary, and the orinati islands on the east. The second, India, Usbec Tartary, Calmire Tartary, and Siberia in the middle. And the third containing Persa, Arabia, Alfracan, Circassan Tartary, and Turkey in A.

fig on the west. China, including Chinefian Tartary, is divided from Siberia by the river Argun, and is 2000 miles in length from north to fouth, and 1000 in breadth from east to west. This vast empire is usually divided into 16 provinces, in which are computed 155 capital cities, 1312 of the second rank, and 2257 fortified towns. On the limits of China, there is a stone wall 1500 miles long, built to defend them against the incursions of the Tartars : but, not with flanding this, about an hundred years ago they made a conquest of China. This is thought to be the most populous empire in the world. In the north and very far to the fouth, the air is very co'd, occafioned by the height of the land. The chief produce of the country is filk, tea, china ware, gold dult, and japan work, of which England, Holland, Portugal, and France, import a great deal, fending them filver in re-Their religion is pagan, of which feveral feets are tolerated. Europeans complain of them as a very deceitful people.

Of all the caltern illands, those of Japan are the most famous; that called Japan, and which gives its name to all the rest, is about 600 miles long, and from 100 to 150 broad, besides which, there are several others of a considerable bignes, all slopest to the emperor of Japan, who has fifty or fixty vassal princes under his dominions. The revenues of this emperor are faid to be greater than those of any monarch upon earth. They trade with the Chinese, but no European anation are allowed this priviledge except the Dutch, who earry to Japan spices, sugar, silks, woollen and linnen cloth; elephants teeth, and haberdashery wares, and they receive in return gold, silver, sine copper, cabinets, and other Japan and Jacquered wares.

The peninfula of India, or India Proper, is the most fouthern part of the second division of Asia, and is about

poon miles from fouth to north, and in the broadest part roop from east to west. The northern part of this vast country, has a temperate healthful climate, but in the fouth it is extremely hot, especially when the winds blow in April and May, They have periodical rains, which. beginning in June last till October, which is the feafon for planting and fowing; but they have fearce any grain belides rice, except in the north. The produce of the continent of India, and what the Europeans export from hence, are chints, calicoes, mullins, pepper, and diamonds, which most nations purchase with filver, but the Dutch frequently barter fpices for them. Their religigion is paganism, and they all believe in the doctrine of ransmigration. They are under the government of the ereat Mogul, an arbitrary and despotic prince, who is he fole landlord and proprietor as well as fovereign.

India beyond the Ganges extends near 2000 miles rom north to fouth, but is of a very unequal breadth, tecomprehends the kingdoms of alicm, Ava, Pega, Lass, Sinm, Gambodia, and Malacca; the left is in the offellion of the Dutch, and the reft is governed by as any Indian princes. Great part of this country would extended by the control of the provided rains, shich, when the fun is vertical, overflow the country, and the breezes which come from the fear. The natives re of an olive colour, and their religion various feels of aganim. There is no country where there are fuch umbers of elephants. Our merchants here meet with old and precious flones, canes, opium, and fuch other sticles as are ufually found between the tropics, but say have no corn except rice.

Tarary, which is the fame as the ancient Scythia, omprehended all the north of Europe and Afia, of which the Ruffians poficise the principal part, and have twen it the name of Siberia; and this part of their do-linions extend even to the pacific occean, and is 2000 siles in length, and 1300 in breadth. The Tararas of [Harcan, and the Calmue Tartars, are alfo fobject to dofcovy, those of Circalia and Dagillan, fometimes at themselves under the protection of the Turks, and erfians, and fometimes of the Ruffans. The Usbed Fartars are ributary to the foverein of Perfia. Nor-

them Tartary is a barren country, almost always covered with frow, in which are few houses or inhabitants. But in the fouth the Tartars enjoy a temperate climate, and a fruitful foil; yet they do not apply themsfelves to cultivate the land, but are continually moving from place to place to find passure for their numerous shocks and herds.

Perfia is the first country we shall mention in the third division of Asia, It is 1200 miles long, and almost as many broad. In the fouth, which lyes near the tropic of Cancer, the air is to excessive hot, that for two or three months in the year it is dangerous to ffir out at noon; for at that time the winds blowing over a valt tract of burning fands, are heated to fuch a degree as frequently to prove mortal, There is very little water, but what they have is managed with the greatest care. and conveyed through innumerable aqueducts to their towns, their fields and eardens. It is a country incumhered with barren mountains, but whose valleys are fruitful. They have a prodigious variety of the richeft fruits, but scarce any corn except rice. The foil alfo produces abundance of medicinal drugs; and they have a fine breed of horses, but as the country is very fandy. and filled with large defarts, there camels and dromedaries are their most weful animals. One of the principal manufactures of Perlia, is embroidery in gold and filver, on cloth, filk, or leather. Turkey leather is chiefly brought from hence and carried thro' Turkey; as also those called Turkey carpets are really made here. But the principal manufacture of the country is that of filk. which they either work up alone or mix with cotton, camel or goats hair; their brocades, gold tiffue, and gold velvet are admirably fine. They also manufacture camel hair fluffs, camblets, filk and worsted druggets. Their greatest men are merchants, but the Armenians and Indian banyans, who refide there, carry on the molt distant foreign traffic. They take broad cloth from England, in exchange for their raw filk, and an act has lately passed hear for carrying on the same trade through Russia. Our East India company have long traded this ther by the way of Combroon and the Persian guiph. The people are civil to strangers, but, live in a luxurious

manner; their religion is that of the mahometan, and

Arabia joins on the east to Perfin, and is a country of vall extens, governed by feveral princes, and divided in so many states. The people generally live in tents, and move from placeto place to find pasture and water for their eatles, great part of their country being a dry and harren delegan.

Turkey, in £fin, contains Chaldea, now called Fyreas, Arabic: Melopotania, now Databeck; part of £6-Fyria, now called Cardulan, Armenia, now Turcumania, part of Georgia, Mingrelia, and Citecilia; part of Arabia, Syria, Palettine, Naralia, or £1s, Minore. Some of which are as fine and fruitful countries as any in the

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-A Description of AFRICA.

A FRICA is joined to Affa by the marrow illhoms of Suez, and flugited between 37 degrees north; and 35 degrees fouth latitude, and between 18 well, and 15 degrees of early longitude, bounded by the Mediterranean, which feparates it from Europe on the north, by the fillinus of Suez, the Red Sea, and the caltern ocean, which divides it from Affa on the eaft by the fouthern ocean on the fouth; and by the Atlantic ocean, which figures.

Africa's divided into ten divition, Egypt, Abyfinia, or the Upper Ethiopia; the coalt of Anian and Zanguear; Mondemugi, Monomotoja, and Guffieria, or the Lower Ethiopia; Congo, Angola, and Guiney; Nigriia, or Negroland; Zaara; Biledolgerid; the antient Numidia; the empire of Morocco; and the coalt of Barbary.

Egypt is fittated near the extremity of the Mediterraean, and is 600 miles in length from north to fouth, and from 100 to 200 in breadth from eait to welt. The air is here very hot and the foil extremely fettile costolponed by the overflowing of the Nile, without which, it would be a barren walle, as it very feldom rains in this country. The lower Egypt is a triangolar illand, made by the Levant, and the two principal branches of the Nile. No place in the world is better furnified with corn, 8th. filh, fruits, and the molf excellent garden fluff, but the people are very fubject to have fore eyes. The Egyptians were the inventors of almost all stris, and there are fill to be feen their antient pyramids, one of which is 700 feet high. Egypt is fubject to the grand feigiors, but his authority is extremely limited by the Eventian brites.

Egyptian princes. Ethiopia fuperior, comprehending Abviligia, Nubia, and Abex, joins to Egypt on the fouth. The river Nile rifes from a lake almost in the middle of Abystinia. which being swelled by the periodical rains, that fall annually between the tropics, overflow Egypt and all the low grounds which border on that river. The country produces plenty of corn, rice, wine, fugar, flax, and all the fruits proper to the climate; but the Turks being in possession of Abex, have that up all the avenues to this country. Camels, horses, oxen, sheep and affes are their cattle. The Abvilines are perfectly black, but have neither flat nofes nor thick lips. It was the king of this country who was called Prefter John. They keep both the Christian and Jewish sabbath, and both baptize and circumcife their children, and even their female children

The coast of Anian is a barren country, on the east

of Abyshinia, fabject to several African princes.

Zanguebar, is another country on the all of Afia, lying on the fouth of Anian and contains the provinces Majadoxa, Melinda, Quiloa, Mozambique and Sofola. The Portugueze have been made feveral fettlements, and trade with the natures for gold, flaves, ivory, official

feathers, wax and drugs.

Caffraia, or the country of the Hottentots, lyes in the fourhermoft part of Africa, and almosf furrounds the inland country of Monomotopa, a part very little knows; the Hottentots are a favage and naily people. In this country the Dutch have built a town and caffle near the moft fouthern promontory, called the Cape of Good-Hone.

Congo and Angola lyes on the west of Caffraria. Thither the European merchants refort to purchase flaves These countries are subject to several Negro princes: out as the Portugueze have a great many fettlements on his coast, and in the inland country, they pretend to he dominion of the whole, and that these princes are heir vaffals; however the trade is open to all the natiins that please to traffick with the natives. The chief own on this part of the continent is St. Salvador , but he capital of all the Portugueze fettlements in this part f Africa, is the city of Loango, in a fmall island near he coaft. The flaves of Angola, as they are not bred o labour, are generally agreed to be the laziest and most atractable of any of the flaves purchased on the coast. Guiney coall has the Atlantic ocean on the fourth nd west, and is divided into the grain coast, from its niefly producing Guiney grain; the ivory coaft, from he plenty of elephants teeth found there; the gold paft, from its furnishing much gold; and the flaves halt, from its furnishing the greatest number of flaves. he English, Dutch, and French, have forts and factoes on this coast; for the Portugueze, after having poffied the whole for upwards of 100 years, were drove om hence by the Dutch. The princes of the inland buntry being almost always at war, fell their prisoners the Europeans for flaves.

Negroland is a fruitful country, producing rice, Guiy grain, and Indias corn; alfo cocoa nuts, plaotains, alfe, palm trees, and tropical fruits. The European ade thither for flaves, gold, ivory, bees-wax, num-fe-

uga, and other drugs.

Zaara is a barren defart country that produces fearcany thing to fufdan life; it has no towns, but the winhabitants who know where to find fprings of iter, live in tents, and wander from one country to barker, to find grafs and water for their cattle. Thefe ople are of an olive complexion, their language is Abioc, and their religion mahometanifm.

Biledulgesid lyes on the north of Zarra; it is partly bject to the Turks, and partly to the king of Mozeo. The climate is very hot, but generally efteem-wholesome. The foil is but indifferent, and the

commodities are chiefly cattle, corn, dates, and indigo. The religion of the ithabitants is that of mahometanism.

Merceco has the Mediterranean fea on the north, and the Atlantic occan on the welf, and is about 200 miles long, and 200 broad. It is a fine country confilling of mountains and fruitful plains. The full produces core and the richeft fruits. They fend feveral thoufand tamels, horfes, and mules, every year to Mecca and Negroland: to Mecca they carry fine woollen goods, Merocco fkins, indigo, eochineal, and offrich feathers, bringing back fills, mullins, callicoes, coffee. and dries. By the catavans to Negroland they fend falt, fifts, and woollen goods; taking gold, ivory, and negro flaves in return. The emperor is an abfoluce defpoit by rant, but he has no fhips of war except fmall pyratical yriffels.

Barbary, comprehending Algiers, Tunis, Tripoli, and Barea, Iyes on the eafl of Morocco, and extends along the fouthern flore of the Mediterranean, as far as Egypt. The air of the country is temperate and healthful, the foil fruitful; its chief commodities are honey, wax, oil, flax, dates, almonds, hides, &c. The religion of this country, as well as Morocco, is mahometantiful.

A Description of AMERICA.

A Merica is futuated between 80 degrees north, and 83 degrees fouth latitude, and between 35 and well-aaf degrees of well longitude. It is bounded on the eafl well-and fouth by the ocean; but on the north fone have imagined it joined to the other continent; while others, finding a great current flowing in Hudfon's bay from the calf, fuppofe that it is divided from the north by a large-river, which has a communication with the ocean, on the other lide of the continent. Others have imagined, that the north calt of Siberia joins to the Newell of the unknown continent of America, well-of

Findion's bay; and that thus indeed of two continents, we have but one. If this fuppolition be true, it will account for the peopling of a country fo far dillant from that place of the world in which man was originally placed.

The principal part of America is at prefent under the dominion of Spain, Portugal, Great Britain, and

France.

The Spanish dominions, which are by far the largest, comprehend Old and New Mexico, Florida, Terra Firma, Peru, Chili, Patagonia, Paragan, and ala Plata, the country of the Amazons, and the Spanish islands, of which the most considerable are Cuba, Hispaniola, Porto Rico, and Trinidad.

The second division is subject to Portugal, and confiles of the country of Brail, extending from the river Amazon, under the equator, to the river La Plata, in as degrees south latitude, an extent of 2000 miles but

learnedy 200 miles broad

The find grand division is subject to Great Sritain, and iyes along the eastern coast of North America from 31 to 51 degrees of north latitude, and lying in the following order from north to fouth. The file of Newfoundland, New Britain, Nova Sociia, or New Sociland, New Social, New Social, New Social, Orthodologia, North Carolina, South Carolina, Maryland, Virginia, North Carolina, South Carolina, Georgia, and the Islands of Jamaica, St Christophers, Barbadors, &c.

The fourth divition is claimed by the French, which, according to their maps, extends from the gulph of Mexico to the north of Canada, that is, from 28 to 52 degrees of north latitude, being 1500 miles from north to fouth, and very little lefs from east to welf: these having the British dominions on the cast, and New Mexico on the welf, comprehending the greatest part of Canada and Florida, to which countries they have given the names of New France and Louisiana. The islanda of this of New France and Louisiana. The islanda of the other Caribbee illands,

The Dutch are polleffed of Surina n on the coast of Guiana, or Caribiana in South America, and others on

the north coalt of Terra Firma, of which those of Curasiow, Arabia, and Bonnaire are the chief, and from hence they carry on a clandeitine trade with the coasts of Spanish America.

Denmark is poffessed of the island of St Thomas,

one of the Caribbees.

It would take up too much room to give a particular account of all the countries of this vaft continent. We shall therefore conclude our account of this part of the

earth with fome general observations.

America, as a continent, is divided into two parts north and fouth, by the Ishmus of Darien. This Ishmus is a neck of land, of about fixty miles broad, and 200 in length, and filled with high mountains, on which the fnow frequently lyes, though it is only between 8 and 10 degrees of north latitude; the wind, which great part of the year blows from thence into the fouth fea, is cool and refreshing; while on the other fide, the air of the Atlantic ocean is excessive hot. America enjoys all the advantages of the other three parts of the globe, being extreamly fruitful, and having a fine air, except towards the north, where it is much colder than any part of Europe that lyes under the fame latitude. The air is filled with an infinite number of birds, and the rivers with fifh, and (where uncultivated) the land with trees; fo that the principal difficulty in making a new fettlement confifts in clearing the ground. The British and French settlements chiefly produce tobacco. fugar, pepper, corn, rice, timber, iron; and from hence are imported fkins, furs, fish, and some drugs. The Spanish settlements, produce cochineal, and other drugs, with great quantities of gold and filver; but it is faid that the gold mines of Mexico is almost exhausted. The Portugueze fettlements at Brazil in South America at present produce vast quantities of gold, and diamonds. And the Dutch fettlements at Surinam furnifhes them with tobacco and fugar.



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BRITISH ISLANDS.

THE British islands, or the English dominions, ly in the western ocean, on the north of France and west of Denmark, Germany and the Low Countries. Situated between the 8th, and 22th, and 25 min, of lon, and between the 50 and 59 deg, of lat. Under this name are comprehended four distinct parts, besides the lefter isles, viz. 1. England, 2. Wales, 3 Scotland, and 4s Ireland.

I. ENGLAND.

The kingdom of England lyes on the fouth of Scotland, and north of France, from which it is divided by the Channel, of a triangular form, encompated on three fides with fea. In length from north to fouth, about 360 miles, and in breadth from ealt to well about 200, containing about 27 millions of acress.

The inhabitants' are mossly of the reformed religion, taught here in its purity (the divisions I forbeat to mention) fome few are Papist; their language is a branch of the Teutonick, chiefly composed of old Saxon, Latin and French. Their chief commodities are corn, cattle, tin, copper lead, iron, timber coals, abundance of wool, stiff of the stiff of the

1. Northern circuit, 2. Midland circuit, 3. Oxford circuit, 4. Norfolk circuit, 5. Home circuit, 6. Western circuit.

Rivers of principal note are four, viz. 1. Thames, 2. Severn, 3. Trent, and, 4 Tweed.

Mountains of the greatest account are three, viz. Inglebourgh, a. Pendle, and 3. Pennegent.

Archbishopricks. 2. Bishopricks 20, Universities 2.

An account of the feveral counties of England and Wales, with their produce, market-towns, and market-days

Note, m flands for Monday, tu for Tuefday, w for Wednesday, th for Thursday, f for Friday, and f for Saturday.

Bedford(hire

N inland county, in Lincoln diocese, 73 miles in circumference, is a fruitful country, well flored with corn and cattle, especially in the northern parts, It produces barley and wheat as good, if not the best in England.

Market-towns.

Bedford, the shire town, Tuesday and Saturday. Dunftable w Shefford f Biglefwade tu Woburn f

Ampthill th Potton f Leighton tu Tuddington f. Luton m

Berkshire.

An inland county in the diocese of Salisbury, and a pleafant country. 120 miles round, where the air is good and the foil fruitful. It yields plenty of corn, cattle, wild fowl, wool, and wood, especially oak,

Market-towns.

Reading, the shire-town, Saturday. Abingdon m and f Newbury th Windfor f Faringdon tu Wallingford to and f Wanting f Maidenhead w

Eaft-Ifley w Hungerford w Okingham tu

Buckinghamshire, or Bucks.

Another inland county in Lincoln diocefe, 138 miles incircuit, is very plentitul both in corn and paffure, particularly the famous Vale of Aylesbury, which feeds an infinite number of theep, yielding excellent would. The Tame, Oufe, and Cola are its principal rivers.

Market-towns.

Buckingham the chief, Saturday.

Aylesbury f Beaconst
High Wickham f Chefham
Colebrook Risborou
Stoney Strarford f Amerikar
Oulney m

Wendayer th

Beaconsfield the Chefham we Risborough for Amerikam tu Newport Pagnel for Vingo for Winflow the Cheff Research winflow the Cheff Research Research

Cambridgeshire.

An inland county, in the disocte of Ely, 150 miles in circumference, abounds in con an apativer, eith, wildfowl and faifron. "The true, the north part of it called the Ille of Ely is full of markes, and fubject to fmall inundations, which makes it unbeathful, and yield but little corn; but this defect is rehly fapolied with plenty of cattle, fill, and wild fowl. Cambridge is remarkable for a famous university, containing 12 colleges and 4 balls, and are, as followerth.

Peter House,
Corpus Christi, or
Bennet col.
Gonvile and Caius
King's college
Queen's co lege
Jesus college

1284. by Hugh de Balfham, buhop of Ely. 1346. by Henry of Monmouth, duke of Lancafter.

1348, and fo named from its founders. 1441. by King Henry VI. 1448. by Margaret, wife to Henry VI.

1497. by L. L. D. Bp. of Ely. Z 3 Christ's college
St John's college
Magdalane col.
Trinity college
Emanuel college

Sidney Suffex col.

Richmond, mother of H.VII, 1506. by the fame. 1542 by E.Stafford, the laft D. of Buckingham of that name.

1546 by King Henry VIII. 1584. by Sir Walter Mildman, chancellor of the exchequer. 1598.by Frances Sidney, countels of Suffex.

Clare hall
Pembroke hall
Trinity hall
Katherine hall
Tinity hall
Katherine hall

H A L L S,
1343, by Richard Badew.
1347, by Mary de St Paul, counters of Pembroke.
1353, by William Bateman, bp.
of Norwich.
1450, by Robert Wood, chancellor of the university.

Market-towns.

Cambridge, the chief, Saturday,
Ely f Merche f
Caxton tu Royflon w
Newmarket tu
Linton th Soham f

Cheshire, or County of Chester.

A maritime county in the diocefe of Chefler, 112 miles round. It yields more pafture than corn, and is for the most part level: its greatest hills being those that past it from Stafford and Derbythire. There are in it feveral forefix, particularly Delamere and Macclessfield forefits: and so great a number of parks, that sew gentlemens country feats are without one.

There are also many heaths, in which both sheep and horses feed; and some mostly plots, which make good surfit to burn.

Its principal rivers are the Dee, which waters the S. W. parts, the Wever running through the middle, and the Merley northward.

Cheese and salt are the chief product of this county, and both in great request all over England.

Market-towns.

Chefter, the capital, Wednesday and Saturday:

Namptwich f Middlewich f Norwich f Macclesfield m Congleton f Fordelham w Stockport f Sandwich th Aftringham tu Malpas m Knotsford f

Cornwall.

A maritime county in the diocefe of Exeter, is the most wettern county of England, furrounded with the fea on the north, fouth, and well, and parted from Devonline, eathward by the Tamer, all but a flip of land; fo that 'its a perfect penifola, 150 miles in circumference: but is none of the most fruitful parts of England, Its it were, its valleys are full of corn and paffure, and the hills famous for their tin and copper mines; and it abounds in wild fout, and the feas thereof in fifth. It yields also plenty of famphire, eringo, fine flate and marble.

Market-towns.

Launceston, the chief, Saturday.

Lethwithiel f Bodnin f Saltash tu
Catchelford f Foway f St Colomb th
Wellow, or Kellington w Market-Jew th
Port Pigham f St German f
Grampound f Newport f Penzance th

Faltlow f Tregony f Falmouth the Penryn w, f and f St lvcs w and f Stratton tu

Cumberland.

A maritime county in the north of England, and in the diocefe of Cheffer and Carlife, is bounded northward with Scotland, and wellward with the Irish fea, and is 168 miles round. It yelds plenty of corn, paffure, wild fowl, fish, coal pite, and mines of copper and lead.

Market-towns.

Carlifle, the chief, Saturday,
Cockernouth tu
Whitehaven th
Kefwick f
Penrith tu
Brampton tu
Revoglafs f

Derbyshire.

Wigton to

An inland county northward in the diocese of Litchfield and Coventry, 130 miles in circuit, is a plentiful county of patture, comand wood. Here are also quarics of free tione, marble, mill, lime, whet thouse, coal, lead and iron mines, chrytal and alabaster.

The river Darwent, which glides through this county from north to fouth, and falls into the Trent, divides

it into two parts, east and west.

Egermont f

Market-towns.

Derby, the shire-town, Friday.
Chesterfield f Ashbourn f
Worksworth-tu Blackwell m
Bolsover f Dronsfield th
Alfreton m Tiddleswall w

Devonshire.

A maritime county in the diocese of Exeter, 200 miles in circumference. It lies in the west of England,

orders upon Connwall, and is watered on two fides ith the fea, viz. north and fouth. The air is very ood, and the foil for the most part fruitful; but there to both hills and woods. This county abounds chiefly a corn, patture, wool, wild fowl and fea fish. There are life in and lead mines. Its chief manufactures are kerwys, ferges and lace.

Market-towns.

Exeter, the chief, Wednesday and Saturday. Topfham f Dodbrood w larnstable f Ayminster (Hartland f oniton f Autrev tu Hatherly tu Bampton f Holdfworthy f akhampton f limpton f Bow f Kingsbridge f avillock (Chimleigh th Kirton th Modbury th iverton tu ymouth m & th Columpton f Moreton f henrefs f Combmartin f Newton th Aburton f Culliton th ddeford tu Torrington f

Dorfetshire.

A maritime county upon the Channel, lies eaft of evonline, in the diocele of Briffol, 150 miles in comfo. It is a pleasant and froitful county, yielding plenof corn, cattle, pafture, wild fowl and fift; also aridance of homp, and quarries of free ftone and intole.

Market-towns.

Dorchester, the capital, Saturday, eymouth tu & f Wareham f Cerne w atcomb Regis Corfe Caltle th Frampton th tu &f · Cranborn w Sherborn tu and f hidport f Blandford f Milton m re w Sturminfter th Winbourn (ol m and th. Abbotsbury th Stalbridge f aftesbury 1

Durham.

A maritime northern county, commonly named the Bilhoprick of Durhaw, toy miles in circuit. The air is tharp, and the foil not very fruitful. The eaft fide is the best, the fouth full of marshes, and the west full of rocks. The greatest advantage of this county coulids in coal, iron and lead mines.

Market-towns.

Durham, the capital, Saturday.

Aukland th
Stockton f
Sunderland f
Darlington m

Effex.

A maritime county in the east part of England, and the diocese of London, called Effex from the East-Sax-ons, by whom it was inhabited. It is about 146 miles in compass. Here the air is temperate, but near the fea and Thannes very moit and agueist. The foil yields plenty of corn, cattle, and wool, Here is also abundance of fish and wild fowl. In the north parts saftron grows to admiration, And there are some parts, the fail of which is fo rank, that after three crops of fastron, it yields good barley for near 20 years together, without composit.

This county is watered by a great number of rivers, before the Thames that parts it from Kent, the Stour from Suffolk, the Lea from Middlefex, and the little Stour from Hartfordfhire; here's the Colo, Chelmer, Crouch, Roding, and many other Rivers, all yielding

plenty and variety of fish,

Market-towns.

Colchefter, the county town, Saturday.

Harwich tu Hatfield f Rumford w
Backing f Witham tu Ingerstone w
Maldon f Chelmsford f Walden f

Billericay tu Burntwood th Dunmore f Cogefball I Graves th Halftead f Horndon [Raleigh f Waltham Abbey tu Manningtree tu Sudbury f Epping th and f Braintree W

Gloucestershire.

An inland county in the diocese of Gloucester, 128 miles round, is a fine, fruitful and delightful country, The hills on the east fide, called Cotfwold, are covered with flocks of sheep, whose wool is called the finest in Britain. The middle parts are level, and watered by the Severn, which contributes much to the fertility, Westward is the antient forest of Dean, formerly 20 miles long; but now much less; the iron mines having confumed a great part of it.

Besides the Severn, which crosses this county from north to fouth, here is the Avon that parts it from Somerfetshire, the Wve that partly divides it from Monmouthshire, besides the Stroud and the Isis, all very fishy

rivers; the Severn yielding great plenty of falmen. Formerly the vales of this county were full of vineyards, which have been fince turned into orchards,

yielding plenty of apples for cyder. In short, this county abounds in corn, wool, wood, iron, cyder and falmon. Among its manufactures, the woollen is most considerable. Here is also made great quantity of good cheefe,

Market-towns.

Gloucester, the shire town, Wed, and Sat. Cirencester m and f Tewksbury f Blacklev w Durfley th Camben w Newnham f Stroud f Chettenham f Letchlade tu Newent f Sudbury th Panfwick tu Stow th Tedbury w Wickware m Thornbury f Winchcomb f Wotton f. Marshfield tu Morton f Dean m

Hampshire, Hants, or Southampton.

This is a maritime county, on St. George's Channel, between Suffex Rait and Dorfet Work, in the dioceie of Wincheffer, 100 miles in circuit. It is a pleafant and fruitful county, yielding plenty of grafs, corn wool, wood and iron; and particularly noted for the excellency of its honey and bacon.

On the work fide it is watered by the Avon and Stour, which meet near the fea; and on the east by the Tell and the Itchin, that joins near Southampton.

Market-towns

Southampton, the flite town, Tu. and Fr.
Wincheller w. and f.
Partimouth thand f.
Andover f.
Limiagron f.
Petersfield f.
Stockbridge th
Whitechurch f.
Newport w and f.
Alton f.

Hartfordshire.

An inland county, in the diocele of London and Lipcolon, 130 miles round, is a line delightful place; and has more gentlemens parks than an other county. Here the inhabitants breathe a wholform air, and the fell yields plenty of corn, grals and wood. The Lea and Colon are its principal rivers; wheat, barley, and malt its chief commodities, and, with Bediorothre, the belf in Great Britain. The plowmen and farmers are ourdone by none.

Market-towns.

Hartford is the county-town, Saturday.
St. Albans f
Barnet m
Ware tu
Barkhamllead m
Rickmanfworth f
Hatfield th
Buntingford m
Standon f

Herefordshire.

An inland county in Hereford diocele, toward Wales, in circuit 120 miles, abounds in all things neeffary for life, particularly corn, wool, falmon and cyder. Its wool and cyder are counted the belt in Great Britain; and yet their cyder is made of the red-ffreak apple, fearce eatable, but growing no where fo well as in this county.

Market-towns.

Hereford is the capital, Wed, Frid. Sat.

Lempster f Pembridge tu
Weobly th Ledbury tu
Kyniton w Bromyard m
Ross th

Huntingdonshire.

An inland county in the dioces of Lincoln, by some nick named Willowshire, for its plenty of willow, is 67 miles round, was formerly a zery woody county, and consequently most proper for hunting, whence the name of Huntingdonshire. Now it is open and marthy on the N. F., but plentiful of pallure. In general it is a pleafant county, diversified with hills, and yielding plenty of corn and cattle. Its principal rivers is the Unit; now hade navigable, whose beautiful meadows, with such multitudes of cattle upon them, are well worth seeing.

Market-towns.

Huntingdon, the chief, Saturday.
St Ives m Ramfey w
Kimbleton f Yaxley tu
St News th

Kent.

A maritime county, at the east part of the channel, in the diocese of Canterbury and Roeheller, is 160 miles in compass. According to the different parts of its foil, 'its divided into three parts, viz. the Downs, which have health without wealth; the Marshy Parts that have wealth without health; and the Middle that has health and wealth. One part of this county is wood another corn, and the third passure. Its foil yields plenty of wheat in some places, in some barley, and others excellent cherries and pippins.

Market-towns.

Canterbury (famous for its catheral) is the capital,
Wednesday and Saturday,

Rochefter f Cranbrook f Sevenoak f Maidstone th Crav w Tenterden f Dartford f Dover w and f Sandwich wand f Eltham m Milton f Feversham wand f Tunbridge f Romney th Folkstone th Weltram w Smarden f Gravefend w and f Woolwich f Hithe f Wrotham tu Bromly th Lenham tu Wye th Lidd th Afhford f

Suffex.

A maritime county upon the Channel, with Kent on the E. and Hampflire W. in Chichefter diocefe, is 178 miles round. Its Downs, near the fea are charming, and its vallies (called the wild of Suffex very plentful, of outs elpecially. The forefts are barren, but the E.

parts vield abundance of iron, which has occasioned a valt confumption of wood. Here the roads are fo deep in winter, that in fome places, coaches must be drawn with oxen. This county is well watered, but with rivers of no long courfe. Arun is the principal. A Suffex carp, an Arundel mullet, an Amerly trout, and a Chichester lobster are much admired. And so is the white-ear, a bird as good as a French ortolon. Its principal manufactures are iron, guns and glafs,

Market towns.

Chichester, the chief, Wed, and Sat. Fast Grinstead th Petworth w Hastings w and f Stevning w Rye w and f Bassle th . Arundale w and f Hailtham C Horham f Bright Hemston tu Cuckfield f

Midhurft th I exuee f

Lancashire.

A maritime county in the diocele of Cheller, bounded with the Irith fea, is 170 miles in circuit; of all maritime counties the least subject to foes, and the inhabitants generally frong bodied. The foil is partly upon the level, yielding good wheat and barley, and the bottom of the hills excellent oats. But the hilly parts eastward are generally barren.

Market-towns.

Lancaster is the county-town, Saturday. Slithero f Blackbourn ni Hallingdon w Liverpool & Cartmel m Garitong th: Preston w, f and f Coln w Kirkham tu Bury th Nigan m and f Hornby m Janchefter f Charnley f Howstead m Dalton 1 Varrington W Ormskirk tu Elversion th Rachdale tu Poulton m olton m Hawkshead m Perfcot tu

Leicestershire.

An inland county, in the diocefe of Lincoln, is 96 miles in circuit, enjoys a good air, and abounds in corn, and paflure, and is particularly famous for peafe, and beans. Paflure land is fo good, that here are many farms let between 500 and 2000 f. a year. The finep and horfes which are fent in fuch numbers to London are undoubtedly the largefi in England. It yields plenty of coal. Its principal rivers are the Stour, Reck, and Swift.

Market-towns.

Leicester is the county-town, Saturday.

Ashby de la zouch-f
Busworth w
Harborough tu
Harborough tu
Hallaton th
Mountforrel m.
Hinkley m
Bulldon f
Waltham w and th

Lincolnshire

A maritime county in the diocefe of Lincoln, bounded ealt with the German fea, is 180 miles in circuit. The north and well parts are the most fruitful; the east and fouth marshy, yet abound in fish and wild fowl.

Market-towns.

Lincoln is the chief, Saturday. Bofton w and f Birbrook w Dunnington f Grantham f Alford tu Falkingham th Stamford m and f Burton m Holbeck th Grinsby w Barton m Horncastle f Gainsborough tu Kirton th Louthe w and f Bullingbrook tu Bourn f Sleeford m Spalding tu Splisby m Tatterfhall f Salisby m Wainfleet f Stanton m

Burgh th

Middlefex.

An inland county, in the diocele of London, the metropolis of Great Britain, is 81 miles in circumference. It has a fweet wholesome air, and fertile foil, much improved by the compost (or dung) of London. The Thames that waters it, and separates it from Surrey, is the principal river.

Market-towns.

DONDON, the metropolis, hath markets for every day in the week.

Westminster, m, w and f | Uxbridge the Brentford th | Enfield f | Edgwerth th

Monmouthshire.

A county in the diocefe of Landaif, formerly Welch, but now reckoned among the counties of England. It lyes welfward on the borders of Wales, watered on the fouth by the Severn, which falls there into the fea. It is 80 miles in circuit; woody and hilly, but very plentiful; to which the rivers Ufk and Wye, Monnow and Rumney, contribute very much. The Usk and Wye yield plenty of falmon and trout.

Market-towns.

Monmouth, the principal, Saturday. .

Abergavenny tu | Chepftow f | Pontpool f
Caerleon tu | Newport f | Uske m and f

Norfolk.

A maritime county, in Norwich diocefe, bounded on the north and call with the German fea, is 140 miles in circumference. The foil is in fone places fat, in fone fandy and in others heavy. Towards the fea 'th level, and yields plenty of corn. In other parts you have woods and heaths. Those feed abundance of catte,

and these infinite numbers of sheep and rabbits. Its principal rivers are the Ouse, Waverbey, Yare, and Thyra: Its commodities, corn, wool, honey, and fastron, the best growing near Wassingham: its manufactures stuffs and shockings. The neighbouring sea forwars with hering. Ict and amber are sometimes found upon the coast. From Norwich to Yarmouth, about 20 miles, is all rich meadow; upon which most of the Seois runts graze, till they are fat, and then make excellent best

Market-towns.

Norwich the capital, Wed. Frid, and Sat, Lynn tu and f Downham f Comer f Walfham w Yarmouth ! Windham f Harlefton w Therford f Ropeham (Attleborough th Herling tu Snafham f Alefham f Palkenham th Wotton w Buckingham f Worfted f Fulfham 1h Burnham f Hingsham f Seby every fecond m Dearham f Swatham f Wallingham f Caiton tu

Northamptonshire.

An inland county, in Peterborough diocefe, 120 thiles in circuit, is one of the belt counties in England, has a healthful air, rich, fruitful foil, abundance of inhabitants, and claims the honour of haying more noblemens feats than any other county. It abounds in corn and cattle, wood, and falt petre. Its principal rivers are the Oufe, the Welland, and the Nen, all riling in this county.

Market-towns.

Northampton, the finite town, Saturday.
Peterborough f
Brackley w
Daventry w
Oundle f
Trapitone tu
Trapitone tu
Cliff tu

Northumberland.

A maritime county, in Durham diocefe, and bordering upon Scotland, is 160 miles in circumference, bounded by the fea caltward, and on the welf, by the impaffable mountains of Stainnote. It has a keen piercing air 7 is not the molf, fruitful, but some parts of it, are very good, effectally towards the sea. Here are several lead and coal mines; a multitude of monumental antiquities, with wild fowl and sist in abundance.

Market-towns.

Newcastle, the chief town, Saturday.

Berwick f Hexham tu

Morpeth w

Wooller th Belford tu Warkworth th

Nottinghamshire.

An inland county in the discefe of York, 90 miles in circuit, has a wholfome air, and different fort of foil; for the foutheast parts are fertile, the wellern woody, and yield abundance of pit coal. Here is the famous shortlet of Sherwood. The Trent and the Iddle are its prime rivers. The first parts this county from Lincoln-filtre.

Market-towns.

Nottingham, the county town, Wed. Fr. and Sat.

Newark w Redford w Mansfield th Bingham th Worfpop w Tuxford in the Clay m

Oxfordshire.

An inland county, in Oxford diocese, 130 miles round has a sweet healthful air, a good foil for corn and fruit, and rich in passure. Besides the Thames, composed of Tame and lifs, that water this county, here is the Chervel, Windruth, Evenlode, &c. Oxford is remarkable for a famous univerfity, containing 20 colleges, and 5 halls, which are as follows.

University col Baliol

Merton

Exeter

Qucen's New

Lincoln

All Souls Magdalen

Brazen-Nole

Christ-Church Trinity St. John's

Jefus Wadham Pembroke

Worcester

872. by the Saxion King Alfred. 1262. by John Baliol, King of Scotland.

1274. by Walter de Merton, Bp: of Rochester.

1316. by Walter Stapleton, Bp. of Exeter.

1325. by King Edward II.

1375. by William of Wickham, Bp. of Winchester.

Thomas Rotheram, Bps. of

1437. by Henry Chichley, Archbp. of Canterbury.

Bp. of Winchefter.

1511 by William Smith, Bp of
Lincoln, and Sir Richard Sut-

1516. by Richard Fox, Bp. of Winchester.

1549. by King Henry VIII.

1555. by Sir Thomas Pope. 1557; by Sir Thomas White, Lord Mayor of London.

1571. by Queen Elifabeth. 1609. by Nicholas Wadham. Efq: 1620. by Thomas Tefdale, Efq: and Richard Whitchurch, B.D. 1700. by Sir Thomas Cooke.

1740. by Dr. Newton.

Halls.		A June	
St. Edmond's		[Queen's	7
St. Alban's		Merton	LEGISTER OF
St. Mary's	belonging to	d Oriel	College.
New-Inn	THE REPORT OF THE	New	1
Magdalen		Magdalen	A COUNTY OF THE PARTY OF THE PA

Market-towns

Oxford, the	capital city, Wed. and	d Sat.
Woodflock tu	Whitney th	Bicefter f
Bandbury tu		Bampton w
Burford f	Chipping Norton f	Tame tu and
Henley th	Deddington f	Charlbury f

Rutland.

An inland county, in Peterborough diocele, 40 miles in circuit. It yields plenty of corn and cattle, and feeds great numbers of theory; the wool whereof (like the foil) is reddiff, from whence this county is called Rutland; that is Red-land. Here is allo plenty of woody and feeral rivers; the principal of which are the Welland and Walfr.

Market-towns.

Oakhampton f | Upingham w

Shropshire.

An inland county, in the diocefe of Hereford and Litchfield, bordering upon Wales, is 135 miles in compafs. Here the inhabitants breathe a good air, and have the benefit of a fruitful foil, though filly on the fouth and welt. It yields plenty of wheat and barley, pit oal, wood, and from. The fivers are the Roden Teme, and Severn; which last runs through the county.

Market-towns.

Shrewfbury, the county town, Wed. Th. Sat-Bishopfcafflef Elismere tu Wen th Bridgnorth Whitchurch f Church stretch tu Ludlow m Newport f Ofwestry m Wenlockem Drayton w Shipton tu.

Somerfetshire,

A maritime county in the west of England, and diocefe of Bath and Wells, 240 miles round, is one of the largest counties; plentiful of corn and pasture. most pleafant in the fummer, the' but indifferent for travellers in the winter. Whence the proverb, Bad for the rider, but good for the abider. Besides the Severn, which runs into the Sea, there is the Avon, Frome, Parret. Tor, and Tone. The oxen in this county are as large as those in Lincolnshire, and the meat much preferable. This county yields also lead and copper, lapis calaminaris, chrystal that comes near a diamond, and wood for dvers. Its chief manufactures are woollen cloth and ferges. At Chedder they make the best and the biggest cheeses in England, as good as the Parmefan. The whole milk of the parish goes for the makine of it, by agreement among the parithoners.

Market-towns.

Brillol, the capital, Wed, and Sat, Axbridge th Ranafham th Bath w and f. Crookhorn f Wells w and f Sheptonmaller f Bridgwater th Somerton m Dulverton f Hebefter w Wellington tu Glaftenbury tu Bruton f. Chard m Taunton w and f Ilminfter f Longport f Wincanton w Watchet f Dunffar f Poutford tu Wivelfcomb to Southpaterton th Writon tu

Staffordshire.

An inland county, in the diocese of Litchfield and Coventry, 141 miles in circumference; the air is sharp and

healthial, the foil diverfe: for northward 'tis hilly and barren, fouthward it yields plenty of corn and grafs, iron and pit coal. The inland parts are level, but woody. Here is also good flone, marble, and alabafler.

Beside the Trent that waters northward, there is the Dove, Churner, Blithe, Line, Sow, and other small rivers, which make the neighbouring lands very fruirful, and the sheep that feed upon them tome of the best muton in England. Here are also some fait springs, little inferior to those in Cheshire.

Market-towns.

Stafford, the county-town, Sat.
Litchfield tu and f Ecclihall F. Eccliball F.
Ne weafte m Ridgley tu Locke w
Burion th Browly tu Todbury tu
Penbridge tu Breewood tu Stow tu
L'uxexar w Wallhall tu Wolverhampton w

Suffolk.

A maritime county, fouth of Norfolk, and in Norwich diocefe. 140 miles in compafs. The air is wholefome, out the 101 diwerde: fanely and full of heaths towards he fea, but yielding plenty of yes, peafe, and hemp, and feeding will multitudes of they. Further from the ca are Woodlands, otherwise called High Suifolk, which ced abundance of castle. But the most fruitful parse to about Edmonsbury. There are a great many parks a this county. Its principal rivers are the Stoor, Green, Deben, Orwel and Blith. Here is abundance of theefe made tolerable good, but Suffolk butter is counsed excellent. Its manufactures are woollen and linnen both.

Market-towns.

Infinite, the principal, Wed. Frid, and Sat,
which f Stowmarket th Lovenham tu
wrford m Newmarket th Mildenhall f
liborough F Beceles f Biddettone w

GEOGRAPHY.

Sadbury f Bury w Clare f
Eye f Hadley m Bungay th
Dedington f Frainlington f
Ixworth f Leftoff w Mendlefham tu
Necdham w Neyland f Woodbride w

Surrey.

An inland county, which the Thames parts from Midolefex 112 miles in circuit, in the diocefe of Winchefer. The observed that the first of this county are the molt fruitful; however in point of health, the middle parts have the advantage; both for the pleafure they yield by their Downs in hunting, and horfe races. Befides the Thames, here is the Wye, which russ 'through Guildford, the Mole through Darking, and the Wandle, all three into the Thames, the first two near 'Hampton Court, and the last near Richmond.

Market-towns.

Guildford, the county town, Saturday
Ringate tu Kigston f
Southwark w aud f Croydon f
Darking th Farnham th

Warwickshire.

An inland county, in the diocefe of Worcefler, Litchfield and Coventy, is 135 miles in circuit, enjoys a good air; and plentiful foil, effocially on the fouth, northward 'tis woody. Among its rivers Avon is the chief, which runs through the midtl of it, and falls at lait into the Severn. It is chief commodity is scheefe.

Market-towns.

Warwick, the county-town, Saturday,				
Coventry f	Birmingham to	u Nuneaton f		
Stratford th	Coleshill w	Rugley f		
Atherston tu	Henly m	Southam m		
Alcellet til	Kyneton tu	Suttoncolefield m		

Westmoreland.

Welmoreland, in the north weft of England, partly in the diocefe of Endler, and partly in that of Carliffe, is 120 miles in compafs. It is hilly and marfly, but not without fruitful floots of ground, effectally fourthward. But in general it is certainly the most barren and wild county in England. The Eden, Ken, Lon and Eamon are the principal rivers. Ulles water and Winarder mere, are two lakes, the first bordering upon Cumberland, and the other upon Lancalhire.

Market-towns.

Appleby, the county-town, Saturday.
Kendale f
Longfdale th
Burton th
Brough w

Amblefide w

Wiltshire.

An inland cousty in Salisbury diocefe, 140 miles round, is a healthful county. Northward 'it's fomewhat hilly and woody; but fouthward 'it's pretty level. In the middle of it is Salisbury plain, noted for its large extent, and for feeding innumerable flocks of finepe, its principal rivers are the Ifis, Kennet, Willy, and the Nadder. It has the chief manufacture of wool; the belt broad cloths, both white and dyed, are made all over this county.

Market-towns.

Salisbury, the capital, Wed. and Sat.
Chippingham f Crickdale f Warminster f
Hindon th Devises th Bradford m
Wilton w Dounton f Amsbury f
Marlborough f Wesbury f Advburn tu

D C

Wotton baffet th Highworth w Swindon m Malmsbury f Culne tu Troubridge f Lavington Wind F

Worcestershire.

An inland county in the diocefe of Worcefler, 120 miles in compals, yields plenty of corn, paffure, cattle, fith and fruit. The vale of Evelham is noted especially for its great fertility. Here are also several falt springs. Its rivers, the Severn, Aron, Salwarp, &c.

Market-towns.

Worcester, the capital, Wed. Frid. Sat.
Stowerbridge f Kidderminster th Tidbury tu
Evesham m Bromfgrove tu Upton th
Brewdly f Parshore tu Shipton fDroitwich f

Yorkshire.

A northern maritime county in York dioceft, is 520 miles round, "Tie divided into three parts, the N. E. and W. Ridings, which laft is the largeft and most populous." Tis generally a most froitful county, yielding plenty of corn, cattle, fish and wild fow!. Here are also abundance of fine horfes, lime-flone, jet, and allum. Sureby is noted for its goats, Shefiled for iron, Richmondhire for its lead, copper, and pit coal. Its principal fivers are the Humber, Ale, Chalder, Din, Detwent, Nyd, Onfe, Swall, Youre, Warff and Tees. This county is about the fixe of the dukedom of Wirtenfourgin Germany; and bigger than all the feven United Provinces of Holland. The manufactures here are cloths, which of late are carried to great perfection.

Market-towns.

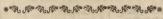
- York, the chief town, Tueld, and Sat.
Kingfton-upon Halifax th Patrington fHoll ta and f Leeds tu and f
Knaresborough w Bradford th
Rippon th Absrford w Sarborough th

Boroughbridge f Sherborn f Pontefract f Selby m. Sheffield tu Tadcafter th Rotheram m Shipton 1 Rincly f

Doncaster f Tickhill f Bawtry f Barnefly w Heydon f Wakefield th Howdon f Wighton w Huthersfield tu Snaith f

Beverly w and f Malton tu and f

Thriske m Northallerton W Richmond f Whithy f Gisborough m Pickering m Yarum th Stockfley f Red tal tu Masham vo



H. WALES.

The principality of Wales, Ives on the W. of England (commonly reckoned a part thereof) bordering on the Irifli fea, and parted by the river Dee, and a line drawn to the river Wye; in length from N. to S. about 124 miles, in breadth from E. to W. about 100.

It was first conquered by the Romans (about the fame time that England was) and afterwards had a king of its own, and fometimes two, one of North and the other of South Wales; till at last the kings of England fubdued them, and brought them under their power : fo that it is at present under the kings of England, whose eldest son has the title of prince of Wales.

The inhabitants, as in the relt of England, are most Protestants, their language very harsh, being the same with the old British or Gallick, but the English is also much used among them; their chief commodities are cattle, butter, cheefe, Welch-frizes, cottons, bays, herrings, hides, calves skips, honey, wax, and other fuch like. It is divided into two parts, which are:

1. North Wales, the feat of the old Ordovices, fince the kingdom of Guinedth and part of Powisland; it contains fix counties, which are,

GEOGRAPHY.

r Flintshire

2 Denbighfhire

202

2 Ifle of Anglefey

St. Afaph and Flint Denbigh Beaumaurish Caernaryon and Bangor

4 Caernaryonshire Merionethshire Harlech 6 Montgomeryshire

| Montgomery and Welfhpool

St. Afaoh is the chief town of the whole.

2. South Wales, the feat of the old Dimetæ, and part of the Silures, fince the kingdom of Debenbarch, and part of Powisland: it contains fix counties, viz.

I Cardiganshire 2 Radnorshire 2 Pembrokeshire (Cardigan New Radnor

Pembroke and St. Davids

4 Carmarthenshire ₹ Carmarthen Brecknock 5 Brecknockshire

6 Glamoreanshire Cardiff and Landaff

Pembroke chief of the whole.

Rivers of principal note are Wye and Dec. Principal mountains are those called Snowdown hills. and Plinlimmon.

Archbishopricks o. Bishopricks 4. Universities o.

TARARARARARAR ARARARARA

III. SCOTLAND.

The kingdom of Scotland is the rest of the island of Albion or Great Britain, and lies on the north of England, from which it is parted by the rivers Tweed and Solway, and the Cheviot hills; in length from Dungf. by head to the S. of Galloway 250 miles, in breadth from Aberdeen to the ifle of Mull 150 miles.

The inhabitants are Protestants, and those chiefly Presbyterians; their language is in the fouth parts a corrupt English, and on the N. and W. parts a dialect of the Irish; their chief commodities are most forts of fish in great abundance, much linen cloth and tallow, vast numbers of cattle and hides; as also excellent honey, lead oar, iron, train oil, coarse cloths, frizes, &c.

It is divided into two {S. the Firth } { {Edinburgh claffes, viz. N. the Firth } { Aberdeen

	andrews in 5 4 and dally	The state of the s	
	[Galloway]	Kirkcudbright	
	Nithfdale	Dumfries -	
	Annandale		
	Efdale with Eufdale	Annand - Wio E	
	Liddifdale	Hermitage —	
	Tiviotdale	Jedburgh —	
3	The Mers —	Duns	
2	Lauderdale	Lauder -	
5	Tweedale -		
-	Clydifdale	Peebles } EtoW	
2	Kyle —	Avr	
	Carrick	Burgenny _	
200	Lothian —	Edinburgh	
5	Stirling	Idem	
	Renfrew	Idem	
	Cunningham 2	Levina	
	- (Bute	Rothfay } EtoW	
	Ifles of Bute 8		
	Peninfula of Cantyr	Kilzeran-	
	3	low of the spiritual and a 2	
	Fife —	St. Andrews	
	Menteith -	n iii	
	Lennox	Dumblain - EtoW	
	Argyle -	Inverara	
3	Perth -	Idem	
1	Strathern -	Abernethy - EroW	
	Broadalbine	Elow	
1	Lorn -	Dunstafnage	
	Merns -	Davier	
	Angus -	Dundee	
5	Gaury	Dundee - Ero W	
1	Athol	Blair	
	Mar -	Aberdeen -)	
	Badenough -	Ruthven - EroW	
	Lochaber	Inverlochy -	
B b 3			



Thefe are the various divifions of Scotland, according to the beft maps, and the manner how they are found. But fince that kingdom is ordinarily divided into flerifidoms, flewardriet, bailiaries, and one conflabulary, we shall also consider it in that respect; and feeing each of these flerifidoms and flewardriet, &c. comprehend either a part, or one or more of the faid divisions, we shall here subjoin all the sherifidoms and flewardriets, &c. of the whole kingdom, and annex to each of them their whole coatent, whether more or lefs. Therefore,



Mar, with its pertinents Aberdeen cont. Buchan Strathbooie Perth Gleenthee Athol Gaury Menteith Strathern

- Argyle Lorn ont. & Cantyr

Bamfe Strathdovern Boyn Bamfe cont. Enzy Strathawn Balveny

Badenough Lochaber Inverness cont. The S. parts of Rofs Part of Murray beyond Nairn

Sutherland Tayne con. Strathnaver

Tiviotdale Liddifdale Efdale with Eufdale

(Kyle Carrick Cunningham

(All Nithfdale Alittle of Rofs, S. of Cromarty Besides those sherissdoms, there are Stewardries Bailiaries One Constability

Stewardries are

As alfo St Andrews

Killmuire
Abernethy

Fife
Angus
Perth

Bailiaries are Kyle Carrick Cunningham Lauderdale Signature Canningham Lauderdale

The one conflabulary is that of Haddington, containing East Lothian.

Principal rivers are Tay and Spey.

Mountains of greatest note, are the Cheviot hills, and those of Albany.

Chief lakes are Lomon, Nefs, and Tay.

Archbishopricks 2, Bishopricks 12, and Universities 4.

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IV. IRELAND.

The kingdom of ireland; an illand lying on the W. of England and Wales; in length from the N. parts of Antrim, to the S. parts of Cork, 283 miles; in breadth from the E. parts of Down, to the W. parts of Mayo, 166 miles.

The inhabitants are both Protestants and Papisls; their language, a dialect of the old British, intermixed with Norwegian, Danish, and English; the English is also frequently used among them, and in some places a mongrel fpeech between both; their chief commodities are cattle, tallow, butter, cheefe, honey, wax, falt, hemp, linnen cloth, pipe staves, wool, frizes, &c. It is divided into four provinces, which are,

1. Ulster, 2. Connaught, 3. Leinster, 4. Munster, or Mounster.

Rivers of note, or Shannon, Barrow, Shur and Black-Water.

Chief mountains are Knock Patrick, Slew Bloemy,

and Curlew hills. Lakes of greatest note are Lough Earn, Lough Neigh,

and Lough Corrib. Archbishopricks 4. Bishopricks 18. University 1.

Leffer British islands are.

1. The Orcades, or Orkney islands, on the north of Scotland, The number of them is indeed very great, 26 of them are inhabited, and the relt called Holms, are used only for pasturage. Most of them are blest with a very pure and healthful air to breathe in, but their foil is very different, being in fome extreamly dry and fandy, in others wet and marfly; however they are indifferently fruitful in oats and barley; the chief of them are Hoy, Mainland, Sapinsha, and Westra; the chief town is Kirkwall in Mainland. These islands have been vifited by the Picts, and fubiect to the Danes : but Christian IV. of Denmark, having quitted all his pretentions to them in favour of James IV. of Scotland, they have ever fince acknowledged allegiance to the Scots crown.

2. Zetland. Under this name are comprehened 46 islands, with 40 Holms, besides many rocks, Of these flands, about 26 are inhabited, the rest being used for feeding cattle. The chief of them are Mainland and Yell: the chief town is Ylesburg in Mainland.

2. The Hebrides. They furpals 200 in number, the most remarkable of which are Jona and St. Kilda.

4. Man on the west of England,

Wight on the fouth of England, &c. raffy the executional feet you head to but after

(CHENERERE CHER)

THE

Management of HORSES.

Tills necessity every traveller lies under of having fone knowledge of the art of managing his brofe, and the many inconveniences frequently attending the want of this knowledge, are so evident, that nothing need be faid to evince the usefulners of this article: I shall therefore without any further preamble, give a few hints to affilt my readers in buying fuch horse as are fit for the road, and then treat of their management under the accidents and disorders to which they are Itable.

As to the first part of this task, it is the more neceffary, since whoever would buy a good horse, must know how to choose him himself, and never place the least considence in the words of a jockey or dealer in horse.

Rules for buying Horses.

If a horfe is young, his tusks will be sharp-pointed and grooved, or hollowed on the indide; but the jockies have the art of hurning the corner teeth of an old horfe, after they have been cut with a praver by which means they imitate the mark, and frequently deceive; yet the chear is diffeoverable by other figns; as, when he has white eyebrows, he may be supposed to be about 15 or 16 years of age; the age of a horfe may the be known by the length and yellowness of his teeth, the leanness of the ropi of his mouth, and the narrowness of the moder jaw.

But it is not sufficient that you are not deceived in buying an old-horse for a young one, the eye is carefully to be examined, lest you should buy a horse that is blind, or that has fome defect in his fight. The best eye is of a bazel colour, and it is an add antage to have it rather large than finall: the part commonly called the sight of the eye, should be perfelly bright and clear, without the least dinners, he that you may fee the bottom, and the image of your face reflected from there and not from the furface; and you should also observe it upon changing the futuation of the horse with respect to the light you can different the fight of the eye contrast or dilate tiself. This, added to the clear transparency alteredy mentioned is a proof of the goodness of the eye.

Put to proceed. Freiy man who bus a horfe, should chuse one whose fize and strength are in preportion to the weight he is to carry: but in general, a middle sized shorfe is best for the road, and one of 14 hands and an inch is of sufficient strength to carry any man under it.

tone.

After the jockey has exercifed his horfe before you, you should ride him yourself two or three miles on a rough, uneven road, when you should give him his head, without forcing him by whip or spur to perform with more life and spirit than he is otherwise inclinable; if he walks, trots and canters nimbly, without dwelling upon the ground, taking up his fore feet moderately high, stepping longer or shorter, according as he sinds there is occasion, and going near before and wide behind. he is likely to carry his malter well. But it mult be remarked, that the best proof of the excellency of a road horse is his tottling down hill, where it is pretty step; for it me is shie tottling down hill, where it is pretty step; for it me is shie tot shorter.

Captain Burdon, in his Pocket Farrier, adviles those hat want to buy, to observe that the horses are not broken. This is a very good caution, add it is what all people are; or ought to be aware of; yet as one who are common flumbler may have an accidental full, you hould observe whether the kneed are ordered with hard cars, which if they be, and the hair is curried about them, it is a certain proof of his being an old offender.

If a horse goes clean, it is a pretty fure fign that he

moves well upon his limbs; therefore when you fee person alight at an inn, with his boots tolerably free from dirt, you may almost venture to buy his horse with

out feeing him exercifed.

The horfe that has his breaft full and prominent ivery unfit for travelling; therefore, before you buy a horfe, fland in a right line, with his head, and mind that his breaft don't keep his knees too far afunder, for the nearer he flands with his knees, provided he does not cut, the more reason have you to judge that he will travel expeditionly, therefore take particular notice that his breaft be narrow, thio, and lean, his shoulder-pointed not projecting forwards, and his fore legs streight and all most personal cut.

To conclude this article, there is fearce a better property, in a horfe than a found, tough hoof, that will abide hard roads without much heating. A foundetechoof is very often long and deep, and fhaped more like

that of an als than of a horfe; but the good hoof is fe-

Rules for travelling, with Directions for preventing and curing the Disorders Horses are incident to on the road.

When you fet out on a journey, observe whether, the shoes be fast, whether they sit easy, or whether they do not cut either before or behind. If a horse cuts with bad thin shoes, he will probably do it when he is fresh shod; but this may sometimes he helped by

a good smith.

Moli of the diforders to which horfen are fulled, are produced by the neglignen or ignorance of the rider: and as they may be eafily prevented by a proper care, they are corred without difficulty, if taken in time. It is true it is much more eafy to prevent diffeafes than to cure them; for if a horfe be well curried, bruthed and wiped down with a cloth, morning, noon and night, and duly exercised and well fed, he will be feldom out of order.

The advantage of currying and rubbing down is inconceivable; it promotes a due circulation of the blood. opens the pores, and confequently prevents a flagnation of the fluids, promotes perspiration, and is the readjest way of preferving health.

The most common causes of greafe and scratches, are the carelefness, the nastiness and indolence of the groom; for unless the blood is kept in a balfamic flate by proper exercife, clean, fweet and liberal feeding. that fluid, from which all the the humours in an animalbody are derived, must confequently become deprayed. As exercise ventilates the blood, so, keeping the skin clean and smooth, occasions an easy perspiration thro' the pores : for if after hard riding we fuffer our horses to lye with the fweat drying upon them, we run the risk of a violent furfeit, which is in fact the cause of most of the differencers incident to either human or brute crea-

As we have mentioned liberal feeding, it may not be improper before we proceed farther to mention what quantity of oats, &c. a man should allow his horse on

the road.

A full-fized horse that has a good appetite, and trawels hard, may be allowed every day about fix quarts of oats, half a pint of folit beans, and a good handful of wheat mixed together.

What is here faid with respect to the quantity of oats necessary for a fized horse, may be a sufficient guide as to what should be allowed those of fourteen hands or ander; therefore I shall only add, that he who will not flow his horse the quantity of oats, &c. here mentiond. should ride flowly and make short stages.

As we have been just mentioning the quantity of corn ecessary to be given to a horse on a journey, I shall give the young traveller some hints relating to his watering is horse on the road, and then proceed to give direcions for the cure of those disorders which are occasion-

ld by the want of following thefe rules,

When a horfe travels he perspires very much, and may herefore be allowed to drink a little now and then, as pportunity offers, and this will greatly refresh him; nut you should never let him drink much at a time, for if you fuffer him to drink his fill, he will become dull and fluggish ; and besides, if he be very hot, it may be attended with very bad confequences. However, when you come within a mile and a half, or two miles of the place you intend to bait at, either at noon or night, he may drink more freely, going a moderate trot afterwards, for by this means the water will be well warmed in his belly, and he will go in cool, Yet, carefully observe, that if there has been no water, or he has not drank on the road, never fuffer your horse to be led to water, or to have his heels washed immediately after you arrive at your inn : but let him have water luke-warm after he has flood fome time in the flable: for much mischief has been frequently done by imprudent siders, who after having travelled hard, have let their horfes drink as much as they would, just after going into the inn or town where they intend to lve.

These observations relating to currying, feeding and watering your horse, if carefully observed, will be of great service, and contribute more than any thing else

to preferve him in perfect health.

How to fave a Horse's Back from galling.

Young horfes that have not been used to have their backs pressed, are most fubiged to gall and warble, and therefore we cannot take too much pains in fishing the saddle and suiting it to the shape of the back, that it may bear as equally as possible woon all parts at the

same time.

As foon as an inflammation is found to be coming on, which may be known by fonne places under the faddle fweating, or continuing moift longer than others, efpecially if the back be viewed fome hours after the faddle has been taken off, thefe places floud be easeful by removing the fluffings, that the weight of the vider may prefix upon other parts that are not fo much heated. Vinegar, urine, falt and water, &c. are frequently ufed to cool a horfe's back that has been hurt by being over-heated; but if the skin be broke in holes, it would be better to ufe equal quantities of spirit of wine and incurred in worth and aloes, with a little oil of turposing.

and bathe the place with it now and then. There will be small holes in these tumours (which are called warbles) before fome people would imagine it; but if you use the said tincture, you may proceed on your journey; you ought however to look frequently at your horse's back, and not hing upon him fo as to make the inflam. mation foread. It would also haften the cure if you would every hour walk a while on foot, and bathe the horse's back with vinegar, or any thing else that is an enemy to putrefaction.

On the Navel-Gall.

HE fwelling called the Navel-gall is a tumour on the vertebræ, or bones of the back, and is occafioned by a contusion of the faddle-tree, which for want of stuffing the pannel, it has rubbed and frigged the horse's back. To prevent this, you should frequently, when riding, put your singers before and behind your faddle, to feel whether it pinches the horfe, that you may remedy this diforder in time, by getting your faddle chambered, or hollowed, to prevent its pressing the grieved part. But when through the negligence of the rider, the horse happens to be crushed either before or behind the faddle, and that it fwells much, you flould, as in all other tumours occasioned by bruises) endeayour to disperse it, by applying warm, greasy poultices, as scalded bran and hogs lard, boiled turnips, or the like. Tho' if the bruife be flight, it may yield to cold applications, as whites of eggs, wheat flower, bole armoniac and vinegar laid thick upon a piece of leather, arger than the fwelling, and renewed as it dries; but if he hurt be very flight, the humour may be dispersed w washing the place with vinegar, or falt and water

How to cure a Crush on the Navel-Gall.

Crush on the navel-gall frequently becomes what is termed an encysted tumour; the matter that orms it is contained in a ffrong skin or bag; and this Cca

kind of fwelling frequently remains for years after the hurt is received, nulefs they are carefully cut out by the farrier. The method of cure is to make a long incifion, and to cut out the long of matter, skin and all, and then to heal the wound with the following ointment.

The common Wound Ointment,

Take common turpentine, half a pound; honey, one popud and a half; Burgundy pitch, twelve ounces; and hogs lard, half a pound; melt thefe well together; and when it has been taken a while from the fire, flir in an ounce of French verdigreafe in fine powder, and keep fliring till it is as thick as honey, or, till the powder cannot fink to the bottom.

Of fwelled Legs.

Si Welled legs in horfes is one of their most common girevances, and it must be acknowledged that some are by far more apt to swell in the legs than others; but when a horfe's legs swell and will not yield to good keeping, clean diesling, ske, without the help of medicines, the case is bad; but the following purge may be of ferrice.

Take one ounce of common aloes, Italf an ounce of diapente, three drains of species hiera-piere, one dram of diagridium, 100 drops of oil of anifeed, and as much reacle as will make it into a slift ball, to be rolled in inquotish powder or slower of brimstone, and given the horse in the common way, working it off with warm water and out meal, when the medicine begins to opey rate.

The above dofe, with respect to the quantity of the alors and diagridium, may be enlarged or diminished according to the horse's age and strength; but it is not safe to increase the diagridium above the quantity of two drams: but a horse that is lean and weak should only be once or twice purged with the following preparations.

and afterwards he should take strengthning medicines to restore his fibres to their natural tone and elasticity.

Take of fuecotine aloes, one ounce and an half; extract of cashia, one ounce; of fenega in powder, thice drams; cinnamon, cloves, nutmegs and galengal root, powdered, of each two drams; mix, and with as much fyrup of roles-folutive as is accelfary, beat the whole into a fill mass to be formed into two balls, which are to be given the horse in a morning, wathing, him down with a little warm ale, keeping him from his meat at least half a day.

If your horfe is flrong and full of fielh, and really requires purging, he may in fuch cafe bear the common adoes: but't is a necessary caution, that when the first dofe does not purge, a second should not be immediately given; for by this management many horses have lost their lives: and it is a general rule, always to keep under the common dofe of any medicine, till we are thoroughly acquainted with the temparament and constitution of the creature we have to deal with.

Of the Scratches.

THE feratches are a painful diffemper, and in many respects are agreeable to what is termed killed heels in human bodies; and this generally proceeds from the earelefness and naltiness of the groom; fo the greafe s mostly occasioned by his negligence, in suffering the cratches to grow to too great a height. Yet, according to Dr. Bracken, the feratches differ from the greafe, in that the first require rest, a large stall, and a proper ointment, whereas the greafe (without the foratches) is beter after moderate riding. Experience informs us, that notion prevents the cloting of all kinds of wounds; and t is equally certain that an horizontal pollure of the ody or limb wounded, is greatly preferable to a deending one; for these reasons, a fore on the back part f the letlock, the part where the greafe and feratches, appen, requires care and patience. For this realon, a horse who has the greafe or scratches, or wounds Ir fwelling us the Jegs, will not lie down, he must either be forced to it, or covered with a cloath and surned out in the day; for when a horfe is turned out from a warm flable into a field, the coolnels of the air caufes fuch a contraction of the fibres and the mufcular parts as puts a flop to the influx of the humores; by which means an inflammation and flagnation of the blood and juices are prevented; but before he, is turned out, his heels ought to be well wasfled with warm water, and a nointed with the following ointment.

An Ointment for the Scratches.

Take of white ointment, two ounces; Flanders oil of bays and quickfilver, each half an ounce; melt the white ointment a little, then fir in the oil of bays, and then fir in the quickfilver, and keep firring till all be foold that the laft ingredient cannot fisk to the bottom.

N. B. Before this ointment is applied the hair should be clipped away from the fores, the legs washed perfectly clean with pretty warm water, and the part well dried.

Dr. Bracken afferts, that inward medicines are not abfolutely necessary in the cure of the feratches or grease, and assures us, that he duril undertake to cure these differences fooner by turning out, good feeding, clean dressing, and testing the horse have a double fall in which he may lye at his case, than by any other method whatforcer.

Of Gravel in the Hoof.

The finith driver a nail into the quick, it naturally becomes feltered and inlamed, and the fand or gravel in the roads working up the nail hole, render him perfectly lame: and it is a general rule, that whenever any foreign matter happens to be lodged in any part of the animal machine, it flould be taken out as floor and as carefully as politible. The greatest care should be taken not to cut, pare, or scrape the host more than is necessary in the first particular to cut away what is black

and discoloured, and then to dress the wound with the

Vervain's famous ballam for curing Wounds or Pricks,

Take ballam of Peru, half an ounce; gum Benjamin, half an ounce; florax, three drams; fucctinic aloes; three drams; powder then; and after putting them into a wide mouthed pint goofe-berry bottle, pour upon them one pint of rectified fprite of wine, and corking it loofely, fet the bottle in land in an iron pot over a middling fire, keeping the fpritr pert; y warm for 24 hours; after which you may keep it elofe flopped, and decane it off clear as you want it.

The method of applying this excellent composition, is, to dip into it a piece of lint or tow, and then fallen it on the part, cleared of the gravel, &c. and renew it as it grows dry. But if this cannot be easily procured, the part may be dressed with the following omtment.

An Ointment for a gravelled Horfe.

Take of turpentine, two ounces; rofin and Burgundy pinch, of each an ounce; bees wax, an ounce and a half; fresh butter four ounces; French verdigreafe fine-ly powdered, half an ounce; clarify the butter, and atter melting the hardest soldlances fish, put in the other, and last of all the powdered verdigrease; and slir the whole about till it is almost cold, otherwise the ointment will be more sharp at the bottom than at top.

On a Clap in the Back-Sinew.

A Clap, or more properly a ftrain in the back-finew, toot into a hole in the road, when having a heavy load on his back, he often catches hinfelt fo haltly upon flumbling, that he ftrains the back finew or tendon behind his fore leg. This dilorder is frequently authantically the contraction of the

ken by the farriers for a fitualder flip. but captain Burdon gives a very good rule to diffinguish the difference. If the back sinew be slips, says he, the horse will life his toe off the ground and slep short; but if the shoulder, he will drap his toe as he walks.

The cure of a strain in the back-sinew is best accomplished by cooling applications, and will be much sooner effected if your horfe will lye down and ease his leg. When the disorder is slight, this alone will be sufficient.

cient.

A Cure for a Clap or Strain in the back Sinew.

Take four ounces of bole armoniac, and, ten whites of eags; first these well, and add thereto as much strong red or white wine vinegar as well reduce it to the confishence of a presty, stiff poolis; and then after the leg-has been well batted and washed with warm water, and wiped dry with an easy hand, spread the preparation on thin leather all along the sinew, and part affected. This must be researed as it drives.

Sir William Parsons's Receipt for the Cure of a Strain, either of the Back Sinew or the Shoulder.

Take common Barbadoes aloes, dissolved in as much hot water as will make it of the consistence of a plaister; when spread on a piece of thin leather, apply it to the part affected, and bind it easily on.

A Receipt for a Shoulder Slip.

Take oil of surpentine, two guness; oil of fwallows, and petrolium, of each half an ounce; mix thefe orgether, and having heated the shoulder and opened the pores of the skin, by holding a flat iron pretty hot, at about a span distance, let it be well rubbed in.

Strains frequently happen on a journey, without any fentible heat or swelling, so that the part affected is frequently midtaken by the farriers; but in all cases of strains, it is absolutely necessary to suffer the horse cis-

ther to rell intirely, or to make finall and eafy flages; for where accidents of this kind happen, nothing can be worse than motion. The common practice of rowelling for strains, according to Dr. Bracken, is of no real fervice; since, they the lameness goes off after rowelling; it is not the number of rowels, but the rell from business and the length of time that perform the cure.

Of Strains in the Fillets.

Vien a horfe has a firsio in the fillets, it may be known by his dragging his binder feet after him, his hitting his toes on the ground, and his wriggling as if he would fall. The age of the horfe and the violence of the flatin will render the care, the longer in performing.

A Receipt for a Strain in the Fillets.

Melt fome pitch, rolin and turpentine together, and pour it all over the fillets pretty warm, and then clap over it a parcel of tow.

For Strains in the Fetlock.

Take the lees of wine, either red or white, or wine vinegar to the quantity of about half a pite, and add thereto one pound of common bole armoniae in powder; to thefe put the whites of fix eggs; beat all well together, and apply it thick in the manner of a poultis, and renew it as it dries. If the powder be too much or too little for the wine lees, it may be altered so as to make it of the consideracy of thick honey.

Of Windgalls,

THE cure of windgalls chiefly confiles in cooling the parts, and inflering the horfer to be side rather at grafs than in the house. The above charge for strains in the fetlock may be of great service. De, the sedock joints may be subbed now another with tark.

Of Colds.

Olds generally proceed from giving cold water to denly; and many horses have become phthisicky, and even broken winded, by being rid, when in a fweat, belly deep in cold water. Colds generally affect those parts of the body which are most susceptible of impression, as the brain, lungs, and guts of animals; for when that matter which ought to be perspired, is retained in the blood, by the closing of the pores of the skin, nature endeavours to throw off what is hurtful, by other outlets, fuch as the nofe, mouth, fundament, urine, &c. and therefore it is the business of the physician and the farrier to affift nature in promoting fome of thefe discharges. And therefore when a cold is violent, as an over great fullness is brought on from the perspirable matter lodged in the veins being obstructed, bleeding mult be highly proper. But there is nothing better for a horse that has got a cold, than the following cordial hall

A cordial Ball for Colds, proper to prevent or cure most Diseases in Horses, when there are no symptoms of a Fever.

Take anifeed and caraway feed, finely powdered, of each one ounce; greater cardamum feed, half an ounce; flower of brimflone, two ounces; turmerick, in fine powder, one ounce; faffron, two drams; fugarcandy; four ounces; Spanith liguorith diffolved in hyflop water, two ounces; oil of anifeed, half an ounce; liquorith powder, one ounce and an half; wheat flour, as much as is fufficient to make all linto a fliff pafte; and when the whole has been well beaten in a mortar, it may be tied up in a bladder, and kept for ofe-

This ball, when used for a cold, must be dissolved in stale beer, milk warm, and about one ounce for a dose, given twice a day for the space of a fortnight; or essentially

inflead of diffoling it, it may be put between his grinders, when you should let him chew upon it for an hour or two without cating hay or grafs, and afterwards give him oatmeal and water lukewarm. String them gently about both before and after watering.

If a horse seems griped in the guts from the same cause, let him have the following warm drink given

him.

A cordial Drink in a Cold.

Take two ounces of the above ball, half an ounce of grains of paradile, in powder, and a quarter of an ounce of long pepper, with a large nutneg grated, and mix all up with a quart of fitrong, mellow ale, and give it the horfe in a horn, and then keep him tied up from food for two hours; but first, he must be rid about a little, on a full trot, to shake his guts, and let loofe the morifioned wind

If the herfe is bound in his body, about twelve hours

thin the following clyfter,

A Clyster for Griping in the Guts.

Take mallow leaves and pellitory of the wall (either green or dried) of each three landfulls, caraways feeds bruifed, and anifeeds, of each one onnee, ground gin-ger, half an ounce, the electuary called caryocoflinum, onne ounce; boil the herbs and feeds well in two quarts of water, to three pints, then add the ginger and the e-lectuary, and put a quarter of a pound of fresh butter, and one ounce of Epfom falt to the whole. Let this be injected very warm, and the horfe's tail tited down between his thighs for a good while.

In case the guts are actuated with painful twitches band convulsive contractions, which makes the horse wimble about and firthe his feet againft his belly, to the bove clyster may be added, half an ounce of philonim romanum. These remedies, together with care and patience, warm masses of malt, bran, and the like, will restore your horse to health; but observe that he ought to have a wide stall, and clean, warm bedoing.

Another excellent Receipt for the Cure of Gripes.

Take twenty grains of London laudanum, diffolie it in an ounce of brandy, then mix it with a pint of white wine, and add two ounces of diaffoorlium; give it your horle in a horn milk warm, and clothe him well. Let him reli twenty four hours after it, and dis-ak plentifully of warm water and oatmeal, for he will be very thirfly the day after he has taken it.

On Scouring or immoderate Purging.

Scouring or purging on the road may be remedied by keeping the funder to dry food and lefs water than common; but this muft be continued for a long time with proper exercife, and a full allowance of oats and fplit beans.

A horse of a lax constitution being taken from grass to go a long journey, should have the following preven-

tive thy fic given him in his provender,

A Powder against Scouring or over Purging.

Take galls, powdered (fuch as we make ink with) two ounces, and of the powders of Japan earth and Lemnian earth, of each an ounce; mix, and keep them in a bladder for ufe. The method of ufing it is to fprikle a little water upon the horfes oats, and after rubbing them a while to throw amongst them half a spoonful of the powder.

If a horse from foul feeding, catching cold, &c.purges

upon the road, give him the following drink.

Of the Management of Horfes.

A Drink for a Horse which scours from foul feeding,&c.

Take one ounce of Venice treacle, boil it in a quare of flate beer till one third is evaporated, then add half an ounce of true Armenian bole in powder, and two ounces of common freacle to make it palatable; then give it the horfe in one dofe, and repeat it as necessity requires. If it be too weak to overcome the distemper, an hundred drops of liquid laudanum, and half a gill of strong cinnamon water may be added; but in the last case he should not travel for fome days.

On a Cold in the Head.

When the brain is much loaded from the cold, take fome of the following powder, and blow it through a piece of elder wood, pretty high up the nofirik.

A Powder to make a Horfe's Nofe run in a Cold.

Take affarabacca * dried, half an ounce, and of the powder of margerum, one ounce, mix thefe together, and blow it up the horfe's noffrils twice or three times a day, Keeping his head and throat well covered, to prevent his getting more cold.

As the eyes are fubject to various accidents on the road, particularly from the cut of a whip, a remedy for thefe diforders exhoot be unneedfary. All wounds on the eye, if curable, will yield to the following application.

A Receipt for Curing Wounds on the Eves.

Take half an ounce of the greyish coloured lapis ca-

*This is an herb shaped like the garden scurvy grass, and of a darker green.

laminaris, finely powdered, of lapis tutize, two drams, off white vitriol, burnt, one dram and a half, and about one feruple of French verdigreafe, reduce thefe into a fine powder, and mix them well with about one onnee of fresh butter. When you make use of it, warm this ointment, dip a feather in it, and apply it morning and evening to the fore. This must be continued for a good space of time, because wounds on the eyes are long in healing.

Or when the horse's eye happens to be hurt with a lash of a whip or twig, you may blow in the following powder night and morning.

For a Hurt on the Eye.

Take of lapis calaminaris and lapis tutio, finely powdered, of each two drams, white vittid and allunt, fittle powdered and then burnt together in a very clean, redhot fire flowed, each helt an ounce, mix all thefe together, and keep the whole in a bortle well corked; but observe, that the bottle ought not only to be dry, but well warmed before you put it in.

If the eyes be rheumy and bloodshot, and the horse has symptoms of pain in his head, bleeding will be necessary, and the following eye water may be applied.

An excellent Eye-Water.

Take four ounces of rofe water, and about three drams of the aforefaid eye-powder mixed and diffolved in it; fquirt it into the eyes by the help of a fyringe.

The water is best for rheumy bloodshot eyes, where there is no speck or film; and the powder where there is; but observe, the eye always looks worse while the powders are using.

A Cure for a fwelled Neck.

When a horfe's neck happens to fwell by getting cold after bleeding, the following foftening poultice is the best remedy that can be applied.

Take mallow and marth mallow leaves picked clean from the flatike, of each tree handfuls, white filly song, half a pound; lintfeed and fengereck feed, of each two ounces, obstruct of marth mallows, its ounces, and of hope fard, half a gound. The leaves and roots floud be boiled well, and the water prefied from then; then beat them up to a paip in a morter, and let it dand till you have made a jelly of the feeds by bruifing them well, and boiling them in a quart of water to a phit; this you must beat up with the former; and laftly add the ointment and hogs lard, and when all are mixed thoroughly, it may be kept in a large bladder or put for afe.

This is an excellent poultice for all hard fwellings, either in man or bealt; when applied, it fhould be warmed well before the fire, fpread thick over a piece of flannel, applied all over the tumour, and renewed as it becomes div.

If a fwelling of a horie's neck, after bleeding will not disperfe, it should be opened when sufficiently toft, and dressed with the common wound ointnent, before recommended for healing the navel gall, and the positive continued till the hardness is dissolved.

When a horse is under cure for these kind of swell-

ings, it is belt to give him mathes of malt, warm grains, and warm water, with a good dead of oatmeal in it, and lift he will eat a little hay, it floud he tweet, fort, meadow hay, fprinkled with elear water; or, in fummer, cut grafs.

A Receipt to cure Worms.

The best remedy for the cure of worms is athiops mineral, which ought to be thus prepared. Take four

ounces of flower of brimfione, and the like quantity of quickfliver; melt the brimfion flowly in an iron laddle, and fit in the quickfliver over a gentle heats till it is me corporated; then take it off, and fit it till almoft cold; afterwards fitt them well together in a rion of flow flow flower of the strength of the strength of the strength of the control of the control of the strength of the

A Remedy for the Gravel.

If your horse has the gravel in his kidneys, ureters, or bladder, he will feem weak in the fillets, stale often and with difficulty, and but little at a time.

Take an ounce and a half of the cordial ball above mentioned: fope of tartar, one dram; of Mathew's pill, one dram; or if the horfe be luity and firong, a dram and a half; beat those well together, and with liquotift powder make it up into two balk, and mixing it with a little flale beer and fome treade, give it for a dose out of a horn.

This medicine, if the symptoms are violent, may be repeated once in twenty four hours; and every two or three hours water luke warm should be offered him.





THE

ART of PAINTING in Oil.

To which is added, the whole Art of Gilding with Gold and Silver, mixing Water-Colours, &cc.

A Catalogue of the feveral Colours used in Painting with Oil.

WHITES.

Of this colour there are two forts, the one called cerufe, which is the most pure and clean part, the other is called by the plain name of white lead.

Besides white lead and ceruse, there is another fort to be met with sometimes, which they call slake white.

BLACKS.
Lam black.
Lamp, or candle blacks

Ivory black.

Willow charcoal.

Vermillion is the most delicate of all light reds, being of itself a perfect scarlet colour.

Lake, especially the richest fort, is the best of all dark

reds, being a most pure crimson.

Red lead is the lightest of all reds now in use; 'tis a sandy, harsh colour, and such a one as is not easily ground very fine, altho' you bestow much labour on it.

Spanish brown is a dark, dull red, of a horfe-fielt colour, 'tia an earth, it being dug out of the ground, but there is some of it of a very good colour, and pleasant enough to the eye, considering the deepenes of its colour: it is of great use among painters, being generally used as the first or priming colour, that they lay upon any kind of work, being cheap and plentistal, and a colour that works well, if it be ground fine, as you may do with lefs labour than fome better colours do require; the beit fort is the deepest colour, and freelt from stones; the other forts are not so good to give a colour to the eye, but yet they serve as well as any others for a priming colour.

YELLOWS.

Yellow oaker is of two forts, one called plain oaker, and the other spruce oaker, the one is a much lighter colour than the other.

Pink vellow.

Orpiment is that colour which fome call yellow arfe-

Masticote is a good light yellow for most uses, especially in making greens, of which several forts may be framed out of this colour being mixed with blue.

GREENS.

Verdigrease is the best and most useful green of all others.

Green bice is of a fandy nature, and therefore not much used; green verditer is also a sandy colour, neither of them bear any good body, and are seldom used but in landskips, where variety is required.

B L U E S.
Blue bice bears the best body of all bright blues used

in common work, but 'tis the palest colour. Blue verditer is a colour of no good body, but fomething fandy, and of no very good colour itself, being apt to turn greenish, and being mixed with a yellow makes a good green. Indigo is a dark blue, if worked by itself, to remedy which, whites are usually mixt, and then it makes but a very faint blue.

Note, That the longer this colour is ground, the more

beautiful and fair it looks.

Smalt is the most lovely blue of all others,

Note, That of this colour there are two forts, the finest is that which is called oil smalt.

Umber is a colour that really has no affinity with the others above mentioned, being neither white, black, red, yellow, blue or green, yet it is a colour of as great use as any of the rest in common painting.

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How to make a SIZE for the Gilding both with GOLD and SILVER.

THE operation is thus for the making of gold free; take yellow oaker, and grind it on a tione with water all it be very fine; and afterwards layit on a chake flone to dry; this is the common way: or you may wash your oaker, for when it is washed, to be fure nothing but the purell of the colour will be used; and besides 'its done with lefs daubing.

When your oil and oaker are thus prepared, you must grind them together, as you do other oil colours, only with far drying oil, but it is somewhat more Jaborious, and must be ground very sine, crea as oil itselfs: for the finer it is the greater dustre will your gold carry that is

laid on it.

Here mote, that you must give it such quantity of your fat oil, that it may not be so weak as to rea when you have laid it on; us of of lift that it may not work well; but of such a competent body, that after it is laid on, it may settle itself smooth and glossy, which is a chief property of good size.

Silver fize is made by griading white lead with fat drying oil, fome adding a little vordigreafe to make it

bind,

The practice of working oil colours, and painting timber-work, after the manner of common painting.

THAT which I here call common painting is only the way and manner of colouring all manner of wainfcot, doors, windows, posts, rails, pails, gates, horder-boards for gardens, or any other materials that require either beauty or prefervation from the violence of rain, or injury of weather; the method of doing which, I shall lay down as plain as I can. Suppose then, that there be a fet of palifadoes, or a pair of gates, or fome posts and rails to paint; and I would finish them in a stone colour: first look over the work, and take notice whether the joints be open in the gates, or whether there be any large clefts in the polts, for if thefe are not fecured the wet will infinuate itself into those defects. and make the quicker dispatch in ruining the whole work : let the first business therefore be, to stop up these places smooth and even, with a putty made of whitening and lintfeed oil, well-beaten together on the grinding stone, with a wooden mallet, to the confisence of a very fiff dow, and with this let all the crannies, clefts. and other defects be perfectly filled up, that it may be equal to the furface of the stuff, then proceed to the priming of the work with some Spanish brown well ground and mixt very thin with lintfeed ol; with this do over the work, giving it as much oil as it will drink un: this in about two days will be indifferent dry, then if you would do the work substantially, do it over again with the same printing colour; when this is thorough dry, then take the white lead well ground and tempered up, not too thin, for the fliffer you work it, the better body will be laid on, and the thicker coat of colour that your timber is covered withal, the longer it will fast; let this colour be well subbed on, and the whole furface of the work be so intirely covered, that there remain no creek nor corner bare, which you may cafily do by jobbing in the point of a briftle brush : let this first colouring dry, and then go over it a second time, and if you please a third also; the charge will be a little more, but the advantage will be much more great.

This course is sufficient for any kind of timber work that requires only a plain colour; whether you thus cover the work with a stone colour, or else with a timber colour in umber and white, or a lead colour in indigo and white, that with white being the cheapest of the three by much; nay, I have known fome lay over their work only with a coat of Spanish brown, by tempering it up more stiff than was done for the first, two primings, which in some respects is cheapest of all, and preferves the timber perhaps as well as any. Now he that is able to bring the work thus far on has proceeded to the highest pisch of that common painting that aims at preferration beyond beauty, though fomething of beauty is necessarily included in this also; but this is not all, for he that is arrived thus far, is in a fair way to other perfections in the art of painting : but for the pannelling of wainfcot with its proper shadows, and for imitating olive and walnut-wood, marble and fuch like; these must be attained by ocular inspection, it being impossible to deliver the manner of the operation by preacet without example, and I am bold to affirm, that a man shall gain more knowledge by one day's experience than by a hundred spent to acquire it in some other wav.

I advife therefore all those that defire any insight into his business, to be a little curious, if opportunity offers, a observing the manner of a painter's working, not only in grinding his colours, but also in laying them on, and working them in; in all these observing the motion of his hand, in managing of any kind of tool, and sy this means, with a little imitation, joined to the directions here given; I doubt not but in a short time you may arrive to great proficiency in the business of some

mon painting.

Note, That if when you have made use of your coours, there be occasion of a small cession till the work be sinished; in this case 'tis belt to cover the colour in amour pot with water, for that will prevent their drying, syen in the hottest time.

And for your pencils they ought, so foon as you have lone working, to be well washed out in clean lintseedil and then in warm soap suds; for if either oil or colours be once dried in the brush or pencil, 'tis spoiled':

for ever.

It has been observed, that timber laid over with white, when it has flood some time in the weather, the colour will crack and shrink up together, just as pitch does, if laid on any thing that slands in the sun; the cause of this is, that the colour was not laid on with a shiff body, able to bind it self on firm and saft.

If you shall at any time have occasion to use either brushes that are very small; or pencils, as in many cales there will be occasion, you ought then to dispose of the colours you use upon a pallet (which is a wooden in-Brument, eafy to be had at any colour-shop) and there work and temper them about with your pencil, that the pencil many carry away the more colour; for you are to note, that if a pencil be only dipt into a pot of colour. it brings out no more with it than what hangs on the out fide, and that will work but a little way, whereas if you rub the pensil about in the colour, on the pallet, a good quantity of colour will be taken up in the body of the pencil; and befides all this, you may work your pencil better to a point on a pallet, than you can do in a pot; the point of a pencil being of greatelt use in dis vers cases, especially in drawing of lines and all kind of flourishing.

What COLOURS are most fultable, and fet off best one with another.

By feiting of both, I mean their making each other look and pledfant, for two of fome particular colours put together, of one next the other, fiall add red and white, and fuch like; but green and black put together, look not fo pledfant, neither do black and umber, or bay colour, and fuch like.

All yellow then fet off beft with blacks, with blues

and with reds.

All blues fet off best with whites and yellows.

Greens fet off wel! with blacks and whites.

Whites fet off well enough with any colour.
Reds fet off beft with yellows, whites and blacks.
Gold looks well upon a white ground, effecially if the
matter to be oil be craved.

Gold and black flew also very well.

· Gold on timber colour shews also very well.

. So does gold and a horfeflesh colour, made with the

But the most glorious ground of all others for gold are the vermillion red, the smalt blue, and the lake, laid on a light ground.

Of fome colours that arife from mixture.

Ash-colour is made of white lead and lam black; if a feep ash colour, then take the more black, but if a light one, then take but little black, and most white.

A lead colour is made of indigo and white.

A colour resembling new oaken timber, is made of umber and white lead.

A flefit coulour is compounded of lake, white lead,

A beff-colour, take yellow oaker, and white lead.

For a willow green, take verdigrease alone.
For a light willow green, take verdigrease and white.

For a grafs green, take verdigrease and pink.

A carnation is made of lake and white.

Orange-colour, yellow oaker and red lead.

A light timber colour, mix spruce oaker, and white

Brick-colour, red-lead, a little white and yellowaker.

For a firaw-colour, take white and a little yellow-

aker.
Olive wood is imitated with oaker, and a little white

eined over with burnt umber.

Walnut tree is imitated with burnt umber, and white, eined over with the same colour alone, and in the deep-

R places with black.

Pails and posts are sometimes laid over only with hite, which they call a stone colour.

Sometimes posts and pails are laid over with indigo and white, which is called a lead colour.

Window frames are laid in white, if the building be new, but if not then they generally are laid in lead co-lour, or indigo and white, and the bats with red lead.

Doors and gates, if painted in pannels then the stradow of a white ground are umber and white, but if laid in a lead colour, then the shadows are listed with black.

'Tis not possible to fer down all those varieties of colours that may be produced by mixture; they that would fee more, may peruse Dr. Salmon's polygrafice, where they shall find great variety. But those which I here have given an account of, are sufficient for common painting.

How to gild with GOLD on an oily Size, either Letters or Figures, &c.

WHatfoever you would gild muit first be drawn with gold fize (the making of which has been mentioned) according to the true proportion of what you would have gilt, whether figure, letter, or whatever elfe it be : when you have thus drawn the true proportion of what you would have gilt, let it remain till it be sufficiently dry to gild apon, which you shall know by touching it with the end of your finger; for if your finger flick a little to it, and yet the colour come not off, then it is dry enough; but if the colour come off on your finger, then it is not dry enough, and must be let alone longer; for if you should then lay your gold on, it would fo drown it, that it would be worth nothing : but if your fize should be so dry as not to hold your finger as it were to it, then it is too dry, and the gold will not take: for which there is no remedy but new fizing; therefore you must watch the true time that it be not too wet or too dry ; both extremes being not at all convenient.

When your fize is ready for gilding, take your book of leaf gold and opening a leaf of it, take it out with your cane plyers, and lay it on your gilding cuftion, and it it lie not fmooth, blow on it with your breath, which

will lay it flat and plain, then with a krife of cane, or for want of it, an ordinary pocket knife, that hath a fmooth and flasty edge; with this being wiped very dry on your fleeve that the gold lifek not to it, let your leaf-gold becut into fuch pieces, or forms, as your judgment flat

think most suitable to your work.

When you have thus cut your gold into convenient forms, then take your gilding pallet, ('tis a flat piece, of wood, about three inches long, and an inch broad. upon which is to be glewed a piece of fine woollen cloth of the fame length and breadth) and breathe upon it to make it dampith, that the gold may flick to it; with this tool take your gold up (by clapping it down on the feveral pieces you had before cut into forms) and transfer it to your fize, upon which clap it down according to difcretion, and your gold will leave your tool; and cleave to your fize; which you must afterwards press down fmooth with a bunch of cotton, or a hare's foot; and this you must do piece by piece till you have covered all your fize with gold; and after it is fully dried, then with your harc's foot bruth off the loofe gold, fo will your gilding remain fair and beautiful.

If your work to be git be very large, open your book of leaf gold, and lay the leaf down on your work without cutting of it in pieces, and so do leaf by leaf till you have covered quite over what you intend to gild: and if some particular places shoold mist there, take up with a small bunch of cotton a piece of leaf-gold, cut to a fit lize, and clap it on, that the work may be entirely cowered; and if the gold be to be laid in the hollows of
parred work, you must take it up on the point of a camel hair pencil, and convey it in, and with the faid

spencil dab it till it lye close and smooth.

How to Gild with SILVER,

N laying on filver upon an oily fize, the fame method in all respects is required as for gilding with gold; are only in this, that the fize upon which filver is laid

ought to be compounded of a very little yellow oaker, and much white lead; for the fize being of a light colour, the filver laid on it will look more natural, and retain its own colour better, the whiter the fize is.

Note, That the common painters do now generally in gilding use more filver than gold, in most works that are not much exposed to the air, to which they afterwards give the colour of gold, by means of the lackervarnish, whose use is now to common, that if they gild any thing that stands free from the weather, they only gild with filter, and to give it the colour of gold with a lacker-varnish, made of gum-lack, diffolved in spirit of wine and laid over it.

Some DIRECTIONS for mixing of Oil Colours for divers Purposes, in the Art of Colouring Prints with Oil Colours.

Colours for several Faces.

FOR faces that are accounted fair, take white lead, a little vermilion and a very small touch of lake. For the lips take more of the vermilion and lake than you did for the face.

For a brown face, take burnt oaker and white.

For a tawny Moor, take cullens earth, a little burnt oaker, and a little white.

Colours for Hair.

For a brown hair, mix umber and a little black and white. For a yellow hair, take stone oaker, white lead and a

little vermilion.

For flaxen hair, take white lead, stone oaker, and a little cullens earth.

Linnen is done with white lead and cerufe.

Silver is done with white, a little fmalt, and fome white malticote.

Gold is done with red orpiment and white massicote, of each an equal quantity.

Colours for Garments.

For blue garments the best smalt and white lead-For a grass green, mix verdigrease and a little pink-

yellow. For a willow green, mix verdigreafe and a very little

white.

A fea green is made by mixing green verditer, pink, and white lead.

A French green is made by mixing pink and indigo.

A carnation by mixing lake and white lead.

A crimfon is made by mixing vermilion, lake and white

A fearlet is only vermilion laid on alone.

A cherry colour is made by mixing vermilion and white lead.

For yellow, lay on either yellow orpiment, or yellow mallicote; if your yellows are more pale, then mix white with the former.

For an orange colour, mix red orpiment and a little vermilion

For a purple, mix fmalt, lake and white,

For a violet, mix bice and lake.

A straw colour is made with white and yellow oaker, and a very little umber.

An aft colour is made by mixing black and white.

A chefnut colour is made by mixing umber, lake and white.

A dove colour, or the wings of an angel, take white, a little lake, and a little smalt.

Colours for Trees.

For the bodies of trees, take yellow pink, white lead, yellow oaker, and a little black.

For the leaves of them that are near the eye, take verdigrease and pink, or if darker coloured, then take

indigo and pink.

For leaves of trees farther off, take green verditer,

pink, and white lead.

For them that are farthelt of all, take terra-verd and white.

Colours for Grounds behind a Picture.

Note, That a light hair requires a dark ground, and

a dark hair a light ground. Ground colour for a picture with a light hair is made

with umber, white and black.

A good colour for a dark hair is made with umber and white.

For Ground in a Landskip.

Take pink, oaker and white, with a little green verditer.

For country houses at a distance, take white lead. vellow naker and fmalt : the fame colour ferves alfo for houses of stone.

For brick-houses or walls, take vellow oaker burnt, and white lead, if the work be far off, but if near, then

Indian red, and a little white,

For nails of wood or other timber work, of what kind foever, in country cottages, take umber, white, and a little oaker.

Sky-colours.

Are made of smalt and white for the highest skies. more white for the lower, and yellow mixt with a little vermilion for the lawest of all.

The whole Art and Multery of colouring Maps, and other Prints in Water-Colours.

Aving, as yet, feen nothing published upon this subject that is authentick, I have thought fit, for the fake of those that are inclined to ingenuity, to fet forth the way and manner of doing this work, it being an excellent recreation for those gentry, and others, who delight in the knowledge of maps; which by being coloured, and the feveral divisions distinguished one from the other, by colours of different kinds, do give a better idea of the countries they describe, than they can possibly do ancoloured.

Now to perform this work after the best manner, there must be provided in the first place a lye made with

tartar and gum water.

To make the tartar lye, do thus, take two ounces of the helf white tartar, which is a floor substance that Bicks to the fide of the wine veffels, and is fold by the drupoills. Wrap it up hard and tight in half a sheet of brown can-paper, wet it throughly in waters and put it into a clear fire either of wood or fea coal; let it remain therein till it be red hot quite through, then take it out with a pair of thongs, and put it immediately into a pint of water, and with your fingers rob it well to pieces : put it into a long narrow glass, and in a day or two the black will all fettle, and the lye will become pure and clear; pour off the lye into a clean glass, and keep it close stoot for use.

To make gum water, take three ounces of the whitely and cleaseft gum arabick, which is also fold at the druggills, and beat it as finall as you can bruile it : then put it into a pint of fair foring water, and let it diffolye therein, which will be much haltened by shaking the glass three or four times a day very well, that the gum that is diffolved may mix the better with the water that is a'bove it; and when it is all diffolved, if there appear any foulness in it, strain it through a rag into a clean earthendiff, and put it into a glass, and stop it up for use. Notes That too much of this ought not to be made at a time : for if the gum be kept diffolved too long in the water, it will ret, and to be of so ufe; therefore observe to make it fresh once in two months, or three at the farthest,

In the next place, you must prepare or make your colours ready for use, and the belt for this work are thuse

that follow : Namely.

Copper green, and that is made thus, take a pound of right French verdigreafe made at Montpelier, this being the bell, for the verdigreafe made at any other places will fade. To this add three ounces of cream of tartar. beat them both into a fine powder, and take care, while the verdigreafe is in the pounding, to flop your nofe, and hold a busch of fine linnen in your mouth to breath through, elfe the fubile powder of the verdiereafe will be apt to offend; and when this is done, mix both the powders into two quarts of water, and boil it in an earthen pipkin till it boil away a quart, then frain it dut when cold, and put the hour into a glass, ftop it up.

and let it fland to fettle till the liquor be very clear, for you will have a delicate green ; but fometimes the verdigreafe not being always of a goodness, the colour-may not be deep enough for fome uses. In this case, but fome of it into a broad carthen diffi, and fet it over a chaffing dish of coals, and by a gentle heat, diminish so much of the liquor till by trying on a paper, and letting of it dry, the colour please you; and here you are to note. That if it fline too much when dry, it is not right : for it is not rightly made except it but just shine, and if you cannot make the colour deep enough by evapourating by heat, the abounding liquid, without making it shine too much, it were better to add some more verdigreafe, and boil it up a-new-till it become a tranfparent deep willow green. If you would make but a pint of this, you must take but half the quantities of each ; and you are also to take notice, that this is a colour that will keep many years without decaying, if the glafs that contains it be close that up.

The next colour needful to be made, is a flone colour, or a liquor of myrrh, which is thus done; rake a pint of your tartar lye, and add it to an ounce of the best myrrh in powder, which you can get at the druggifts, and boil it till the myrrh is dissoled, which will be done in a small time; let it fettle, and your off the clear for use, which you must keep close stopt up; this is also a tincture that will never decay, and may be made fainter or deeper by boiling more of the liquor away to make it deeper, or by adding water to it to

make it fainter.

And in the laft place, there is required a crimfon colour which is freedily made thus: Buy at the drugglist
forme good cochineal, about half an ounce will go a
great way. Take thirty or forty grians, bruife them
in a galley-port to fine powder, then put to them as many drops of the tartar lye as will just wet it, and make
it give forth its colour; and immediately add to it half
a spoonful of water, or more if the colour be yet too
deep, and you will have a deletace purple ligoor or tincture. Then take a bit of allum, and with a kinfie forape
revy factly a very little of it into the tidduter, and this

will take away the purple colour, and make it a delicate erimfon. Strain it through a fine eloth into a fine galley-pot, and ufe it as foon as you can, for this is a colour thatalways looks most noble when foon made ufe of, for it will decay it it fland long.

Indigo is another colour used in colouring maps.

This is bought at the colour fhops that fell paint, and it must be ground very fine on a flone, as yound ool colours, with a little tartar lye to make it give its colour, and look the brighter, when 'its ground perfect fine like a thick fyrup, add gum water to it till it be thin enough for your purpole, and keep it in a glafs close floot up, but it will fettle fo, that when you ule it you mult. If it is up from the bottom.

For a yellow, gumboge is the beft, it is fold at the druggifts in lumps, and the way to make it fit for itself to make a little hole with a knife in a lump, and plut into the hole some water, fir it well with a pencil till the water be either a saint or a deeper yellow, as your occasion requires, then pour it into a galley-pot, and temper up more, till you have enough for your purpose.

Red lead is also a colour much used in this work, and fo is opriment; both which you may buy at the colour shops very finely ground, so that they need only to be tempered with gum water to be fit for use.

Blue bice is also used oiten, which needs only to be tempered with gam water, and when men design to be curious, they may use instead thereof ultramatine, which is the best and most gelorious of all blues, but vassify dear; yet small papers of it about two shillings price may be bought at some colour shops, which is carefully used, will go a great way; it needs only to be tempered in a yery small galley-pot, with some gum water, till it lie on the paper a good colour.

There is likewife an exceeding glorious, red or crimfon colour, named carmine, which is exceeding dear, yet about half a crown's worth will go a great way in the ufes to which it is pat; it is tempered with gum water, and gives feveral degrees of colour according as

it is thicker or thinner tempered.

Vermilion is also used in some cases. This is a glorious scarlety and needs only be tempered with gum water, for it may be bought very timely ground to powder at the colour shops; only it is to be noted, that this colour shews much brighter when dry, if glazed over with some thick, gum water, which is made by putting two onnees of gum arabick to half a pint of water, or less.

And for fome uses, burnt umber, ground very fine with water as thick as possible, and then tempered up with sum water to a due thickness, makes a good trans-

parent cotour.

There is another colour needful in this work, which is a most pleafant grafs green, and that is made thus, take a lump of gumboge, and make a hole in it, then put therein some copper green, stir it about with a peacil, and from a willow you will fee it turn to a grafa green, which you may make deeper-or lighter as you thir it about a longer or lefter time.

Of the Practice of Colouring Maps,

THE colours being prepared as before is directled, the only way to colour maps-well, is by a pattern done by fome workman, of which the Dutch are either mental to be the coloured by a good artift, are fafficient to goide a man in the right doing of his work; but if he cannot obtain this, he may by a few trials grow a good artift in a floort time; for this is only attained to by practice, and if a man fpoil half a foore maps in order to get the knack of colouring a map well at laft, there's no man that is ingenious will grounble at it.

The art of colouring right may be attained by practice, as was faid, but the hardelf thing is to know right-by, how to make and prepare the colours properly, without fuffering them to fink into it; all that are here mentioned will lie fair and pleafant to the eye, and it is the fairnefs of the colour is most eftermed in this art of map-

painting; but if the paper be not good and ffrong, no are can make the colours lye well; therefore in buying mans, charle there that are princed up the thickest or Brongelt maper.

DIRECTIONS how to lay on METZOTINTO PRINTS on GLASS.

YN undertaking this, curioully lay the prints flatways in warm water, of the thinnell and finell paper, for that which is rough and thick will not do near fo well, if at all; let them foak well, and your glass being very white and thin, go over it with Venice turpentine spread thin with a thin pliable knife, and daub it over with your

finger, that the turpertine way frem rough-

This done, take the foaked mint, and lay it on a clean cloth smooth, then preis with another to sake out the water, then lay it on the glafs, the print next it, beginning at one end ffroaking outwards the place already fixed on the elafs, that neither wind not water may be trerained between to wrinkle it a then with a bit of a flooree, or your hand, wer the backfide, and highely by degrees roll off the paper carefully, muthout making tholes, especially in the lights, which are the tenderely and when the print appears very plain on she backtide, let it dry about two wours, when warmin it over with surpentine or mastick varnish till you can see through it. and a night's drying will propare at to be worked on with

. If you would have all the paper off, to that nothing but the print may remain, law in as before with oil sof maftick, and a little surpentine; and a bruth will fetch aff the paper.

THE

Exports and Imports of G. Britain to and from foreign Nations.

To and from CHINA, INDIA and PERSIA.

EXPORTS. Reat quantities of bullion, lead, all forts of English cloth, especially broad cloth, stuffs, callimancoes, long ells, and some other goods, which are the product or manufacture of this

kingdom.

MPORTS. China ware, tea of all forts, cabinets, rau and wrought filks, mulins, callicoes, cotton cloths, coffee, canes, diamonds, drugs of many kinds, grocery wares of various forts, and many other forts of goods. Of which Mr. Ger (uppote as much re-exported to foreign nations, as repays all the bullion carried to thefe places, and a confiderable balance beliefs.

To and from AFRICA.

EXPORTS. Linnen and woollen manufactures, knives, feiffais, fmall looking glaffes, ftrong waters, pew-

ter dishes, beads and other toys.

IMPORTS. Gold duft, red wood, elephants teeth, Guiney grain, gum, offrich feathers, amber, ebooy, ety-flal, and great numbers of negroes carried to the plantations of America. From the coalf of Barbary we have rice, figs, almonds, raifins, dates and copper. The great advantage of the African trade is, that it carries no money out, fupplies our plantations with negroes, and brings in a great deal of bullion for negroes fold in the Spanifh Welf Indigs.

To and from the CANARY ISLANDS.

EXPORTS. Bays, kerfeys, ferges, Norwich itoffs, and other common manufactures, flockings, hats, fucilities, haberdishery wares; tin, hard ware, also herings, pilchards, falted fith, grain, linnen, pipe-flaves, hones, and forme other commodities.

1MPORTS. Canary wines, logwood, hides, indigo, cochineal, and fome few commodities which are the pro-

duct of the West Indies.

To and from TURKEY.

EXPORTS. Broad cloths, long ells, tin, lead, fome fron, fome French and Lisbon fugars, and fome bullion.

IMPORTS. Raw filk, grogram, yarn, dying ftuffs, drugs, sope, leather, cotton, oil, some fruit, as currans, raisins, vitriol, fulphur, opium, galis, bolm, box-wood, mohair. The balance of this trade is thought to be, in bur favour.

To and from ITALY.

EXPORTS. Broad cloth, long ells, bays, druggets, tallimancoes, camblets, and other ftuffs, leather, tin, lead, fifh, as pilchards, herrings, falmon, Newfoundland god, ling, logwood, &c.

IMPORTS. Raw, thrown and wrought filks, wine, pil, fope, olives, fome dyers wares, anchories, brimiltone, carpets, feented gloves, necklaces, and some other things. The balance of this trade is thought to be confiderably againft us,

To and from SPAIN.

EXPORTS. Broad cloth, druggets, callimancoes, bays, stuffs of divers kinds, leather, fish, tin, lead, lingen, corn, &c.

IMPORTS. Wine, oil, fruit of divers kinds, wool, indigo, cochineal, and dying furts, tent, &c. The hardance is supposed but very small in our favour.

To and from PORTUGAL.

EXPORTS. Broad cloth, druggets, bays, long ells.

226 Exports and Imports of Grant Britain.

of stuffs, also tin, lead, leather, fish, corn, and other

IMPORTS. Wine oil, falv and fruits, as oranges, lemons, almonds, allo figs, faffron, fone, white marble, liquoriffs, fournack. There is a confiderable balance in our favor.

To and from FRANCE.

EXPORTS. Tobacco, horn plates, tin, feme lead, fome flannels, corn in time of fcarcity, wool, coals and allum.

IMPORTS. Wine, brandy, linnen, fine lace, fine cambricks, cambriek lawns, brocades, velvets, falt, paper, prunes, chefiuts, &c. There is here a balance againft us of no lefs than 500,000 & per annum.

To and from FLANDERS.

EXPORTS. Serges, a few flannels, a very few lbuffs,

fugars, tobacco, tin and lead.

"MPORTS. Fine lace, fine cambrick and cambrick Lawns, whited linnens, threads, tapes, incles, and divers other commodities, to a very great value. The balance is very much against us, being at least 250,000 k per annum.

To and from HOLLAND

EXPORTS. Broad cloth, druggets, long ells, floffs of a great many forts, leather, com, coals, tobacco, rice, ginger, pitch, tar, with Eatt India and Turkey spoods.

goods.

IMPORTS. Great quantities of fine hollands, thread, tapes, incles, whale fins, 'brafs battery, madder, line-feed, flax, argol, wainfeot, clapboard, paper, &c. The balance is confiderably for res.

To and from GERMANY.

EXPORTS. Broad cloth, druggets, long elfs, fluffs; ferges, tobacco, fugar, ginger, tin, lead, East India

goods, and feveral other commodities.

IMPORTS. Prodigious quantities of linnen, linnen yarn, kidlkins, tin plates, and a great many other commedities. The balance is very near as much againft us in this trade, as in that of France.

Exports and Imports of Great Britain. 337

EXPORTS. Guineas, crown-pieces, bullion, fome tobacco, a few coarfe woollens, meal, malt, beef, tallow, falt, coal, fome linnen, lead, butter and herrings.

IMPORTS. Deal boards, fir timber, spars, plank, iron and copper, wire of iron and copper, star, wanfeot, pipe slaves, great guas, mortars, bullets. We pay them a very great balance, amounting to near 390,000 s. per annum.

To and from RUSSIA.

EXPORTS. Some coarfe cloth, long ells, worked fluffs, tin, lead, tobacco, and a few other commodities.

IMPORTS. Hemp, flax, linnen cloth, linnen yarn, Russa leather, iron, furs, pot ashes, timber, train oil, stallow, &c. to an immense value. The balance is against us here 400,000 /s. per ann.

To and from NEW ENGLAND.

EXPORTS. All forts of woollen manufactures, linnen, fail cloth, and cordage for rigging their ships, haberdashery, hard ware, &c.

IMPORTS. Pitch, tar, and turpentine, with fome

To and from NEW-JERSEY, NEW-YORK and PENSILVANIA.

EXPORTS. Broad cloth, kerfeys, druggets, ferges, and manufactures of all kinds.

IMPORTS. Gold and filver, with some small quantity of wheat, flax, and hemp.

To and from VIRGINIA and MARYLAND. EXPORTS. All manner of cloathing and houlhold goods, iron manufactures of all lorts, faddles, bridles, brafs and copper wares, and in thort a part of all our manufactures.

IMPORTS. Tobacco, both for home confumption and re-exportation, tar, pitch, turpentine, and fome lumber.

To and from CAROLINA

EXPORTS. The fame commodities as to Virginia, viz. cloths, and all forts of manufactures.

IMPORTS. Rice, deer skins, buck skins, beaver, and

fome small quantity of raw filk and tobacco.

To and from the SUGAR PLANTATIONS, EXPORTS. Cloathing of all kinds, both linners, filk, and woollen, wrought iron, brafs, copper, all forts of houfhold furniture, and a great part of their food.

IMPORTS, Sugar, ginger, rum. molaffes, otton, indigo, cooca nuts, pymento, tamarinds, lime-quice, fome
gold and bullion from Jamaica to the value of 739, recol.
per ann. from Barbadoes, to the value of 246,600/from
the Leeward illands, viz. Antigua, St. Chriftopher's,
Nevis, Montferrat, Berbuda, Anguilla, Spanish Town,
Tortolo, and the relt of the Virgio illands, to the value
of 642,270.

To and from IRELAND.

EXPORTS. Beaver skins, and beaver wool, French indigo; beer, ale, and cyder; old and new drapery; falt, pitch, and tar; books, bark, bottles; filks, raw, thrown, and manufactured; cambrics, hollands, lawns, muslins: cotton, filk, and thread stockings: worsted and filk ditto, and breeches; callicoes; filk, and hair flags: filk ribbon, cottons, mohair buttons, fustians, cheques, tapes, kentings; gold and filver thread and lace; bone lace, linfey-woolfeys, camblets, millenary wares; cheefe, hoops, hops, chalk and whiting; dye fluffs, drugs, wrought plate, china ware, earthen ware, hard ware, tin-plates, block-tin, fugars, fugarmolds, teas, groceries, fruits and spices; Furkey coffee, liquorice, logwood, cochineal, feeds, feythe-ftones; tobacco, malt, wheat and flour; hats, barley, lookingglass plates, drinking and other glasses; iron, steel, sheet lead; white, red, and black ditto; flax and flax feed; iron, and sheet ditto; mahogony, hogs briffles; colours, battery and brafs fhruff; poats hair, Spanish and English wool, bees wax, copper plates, Piftachio nuts, almonds, rice, Turkey figs; wool cards, fpaw water, bricks, rhenish wines; falt petre, mustard, red wood, cotton wool, back and doe skins; pins, needles, ermins, Hurkey corton, elephants teeth, pewter, sluts, toys, hats, ivory and horn combs; hollow sword blades, coals, slates, shuft.

IMPORTS. Linnens and linnen yarn; wool, woollen and worlted yarn; copper one, beef, butter, pork, tallow; oatsand oarmeal (to North Britain) rabbis fur and skins; hides; kid, calf, goat, lamb, otter and fox skins; hides; kid, calf, goat, lamb, otter and fox skins; pets, ox horns, glew, ufquebagb, feathers, quills, eandles, fope, and fome other inconfiderable articles.

@£3£3@£3£3@£3£3@

AN

Alphabetical List of English Manufactures, with the best Markets for the purchase of them.

B Ays, double, fingle and minikin, are made at Colchefter, Bocking, Braintree, Witham, Cogefhall, and fome other towns in Effex and Manchefter.

Blankets. In Oxfordshire and Wales.

Brafs and copper, call, viz. into flatues, into battery, as pots, fauce pots, kettles, &c. and afterwards hammered; black latten for clock work, jacks, &c. Foundery ware, as canoon, mortars, apothecaries mortars, bells. pipes, which and mill work, buttons, coach and upholiterers nails: wrought or hammered, clockwork, jack-work and mill-work, kitchen ware, clocks, and dials, monuments, plate brafs, and toys: in and about London.

Broad cloth, mixed or medley cloths in Wiltshire, Somersethire, Kent, Surrey, and Devonshire. Plain white cloths for dying, at Salisbury, Worcester, Ciren-

cester, and all parts of Gloucestershire.

Caps, high crowned, for feamen, called Monmouth caps, at Bewdly in Worcestershire.

China, at Bow in Middlefex, and at Worceffer.

Coarfe woollens, as rugs, chair coverings, pennissons half thick, duffles, &c. in Cumberland, Weltmoreland, and Lancathire

Cottons, in Westmoreland, and Lancashire,

Dozens, or narrow woollen cloth mixed, at Leeds. Wakefield, Bradford and Huthersfield in the West riding of Yorkshire

Druggets, in Wilts, Somersetshire and Berkshire.

Duroys, in the fame places.

Flannels, Salisbury, Shrewsbury, and Wrexham in Wales. Frizes, at Worcester, and in Ireland.

Fullians, at Bolton, Manchester, and parts adjacent. Glass, fine flint, including all forts of drinking glasses, cruets, phials, retorts, cafe bottles, decanters, fconces, branches, toys, watch-glaffes, tubes and optic glaffes, as London, Briftol, Stourbridge, Nottingham, Sheffield, Newcalile.

Looking glaffes, coach glaffes and fashes, at Lon-

don.

--- Crown glass for windows, ordinary fashes, pictures, and ordinary quarrel glass, at London, Briftol, Stourbridge and Newcastle.

Green glass, for bottles, phials, retorts and melons, at London, Briftel, Leith, Gloucester, Stourbridge, and

Newcastle.

Hats, felts at Leicester, and Warwick. Castors in

Derby. Bevers in London.

from, call into guns, shells, cylinders, cannon, small arms, bombs, hand granadoes, chimney backs, pots, waterpipes, furnaces, plates and bars, and retorts, at Coalbrookdale, Shropshire, and at Crowley's iron mapufactories in Greenwich and Newcastle

- Forged edge tools, knives, and sciffars, cutlery ware and toys, nails, hinges, hooks, fpikes, cocks, kevs, razors, furgeons instruments, and clothiers and other fheers, at London, Birmingham, and Sheffield

--- Hammered, chains, anchors, crows, tires, ballufires, rails, espaliers, palifadoes, gratings, bar iron, and

fcrews, at London and Newcastle.

-Milled hoops and all felit and flatted iron, forings for clocks and watches, London, Kerfeys, or coarfe cloths, Bradford, Hallifax, Roch-

dale. Guildford, and the circumiacent country.

- Devonshire kerseys, in Devon and Somerseishire. Lead, Pigs and fows for exportation; sheet lead, milled or cast for covering buildings, sheathing ships, coffins, bafons or fountains.

- Call lead, for statues and pipes, bullets, fmall shot. moulds, letharge, calcined lead, &c. at London and Newcastle.

Linfey woolfey, for hangings, Kidderminster and Worceffer

Long ells, or perpets, at Tiverton, Sudbury and Col-

cheffer. Manchester ware at Manchester.

Narrow woollens. See dozens.

Perpets. See lone ells.

Plaidings, at Coventry and in Scotland

Sackings, at Wantage and Newbery, Borks, Savs at Sudbury.

Serges, in Wilts, Somerfetshire and Berkshire, Shalloons, Northamptonfhire, West Riding of Yorkthire, Berkshire, Somerfetshire, Wittshire, Hampshire, Carlifle, Edinburgh, Stirling and Muffelburgh.

Silks of various Soits, in Spielefields,

Stockings, woven, Nottinghamshire, Leicestershire, Derbyshire, Warwickshire and Spittlestelds.

- Knit yarn, in Gloucestershire, Yorkshire, Worcestershire, Derbyshire, Northampton, Kendal and Aber-

deen. Stuffs. Norwigh. Spittlefields, Briffol and Darlington.

Tammies, or Coventry ware, at Coventry.

Tapeffry, at Fulbam in Middlefex.

Tin, blocks for exporting, pewter molds and folder, London

Velvets, in Spittlefields, and a fort at Manchester.

Perhaps it may not be amife to add, that butter in firkins is the produce of Suffolk, Yorkshire, Durham, Cumberland and Northumberland scheefe of the shire, Witte To F a w said Live to some

faire, Warwickfaire, Gloucefterfaire, and Suffolk; ged herrings come from Yarmouth; coals from Northdmberland, Durham and Briftol; malt from Herefordfaire, Effex, Bucks, Kent, Oxford and Berks; falmon from Berwick.

(000000000)

A TABLE, shewing the Value of Portugal Pieces, in Pounds, Shillings, and Pence, Sterling.

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Note, The bank of England nor stamp office take no pieces of gold that want above 6 grains in weight. pence.

A TABLE, showing A TABLE, showing what each the Value of Pistoles of the following Pieces should and Louis d'Ors, in wrigh; likewise the Value of Gold and Silver per ounce, penny wt. &c

Pencer					penny was ecc							
ANTENNA TO				K. JH	ENHERHMET.							
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	95.	6.		a	THE EXPLICATION	the At	d.	PW	rt. 8	50		
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3	12							9		3		
		1	09	00	Quarter ditto -			4		4		
4	16				Eighth ditto-		0	2	7	8		
6	0	4	02	00	Sixteenth ditto-	0 4		I	3			
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10	16				Half ditto -		6	2	16			
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Note. The bank of England nor damp office take a

A TABLE of the two great roads from EDINBURGH to LONDON.

Stagos	Miles		Tp Stages		Miles				
	11			offin Swill					
Haddington	16				16				
Dunbar	13	29	2	Beild	16	32			
Old Cambus	12	41	2		17	49			
Berwick	16	57	2	Lockerby	15	64			
Belford	16	73	2	Allifon Bank	14	78			
Alnwick	14	87	2	Carlifle	12	-90			
Morpeth	19	106	2	Penrith	19	109			
Newcastle	14	120	2	Kendal	15	134			
Durham	15	135	2	Burton	12	146			
Dailington	18		2	Lancaster	11	157			
North-Allerton		169	3	Garstang	9	166			
Burrough Bridge*	19	188	2	Preston	14	180			
Weatherby	12		I	Wigan	16.	196			
Ferry-Bridge	1.6	216	1	Newton	8	204			
Doncaster	15	231	2	Leftock	16	220			
Bawtry.	18	239	0	Newcastle under L		241			
Taxford	16	255	0	Stone	8	249			
Newark	13	268		Litchfield	27	276			
Grantham	14	282	2	Coles-Hill	II.	287			
Stamford	10	302	2	Coventry	13	300			
Stilton	24	316	2	Dunchurch	9	309			
Bugdon	14	330		Towcester	19	328			
Bigglefwade :	16	346.	3	Stoney Stratford	10	338			
Stevenage	14	360	2	Dunitable	19	357			
Hatfield	12	372	I	St. Albans	13	370			
Barnet	19	381	I.	Barnet	9	379			
LONDON	II	392	13	LONDON	II	390			
Table Winds 192 of the second									

^{*} York is 17 miles off this place and 9 miles about from the direct road.

N. B. Tp flands for turnpike, and the figures below, what is paid at each.

** ** *** ** ** ** ** ** ** ***

A N

English Spelling Dictionary.

Bandon abalement abashment abate abatement abbacy abbels abbot abbreviate abbreviation abbutale abdicate abdication abdomen aber abettor abhor abhorrence abiect abjection ability

abduration able abnegation aboard abolifiment abominable abomination abortion abound abrenunciation

abridgment abroad abrupt sheels abscond absence abfolie abfolnte abstemiousness abftraft abstraction abstrale abfurd ahundance abofe academy acceleration accept acceptableness accessory accident accidentalness acclamation accommodate

acceptablenefs accident accidentalnefs acclamation accommodate accompaniment accompany accomplife accomplificaccomplifiment accompliment accompliment accompliment account

accountant accontrement accumulation accuracy accurfed acculation accufer acknowledgment acquisition action after acute adapt adder addition address

adjoin
adjournment
adjure
admeafurement
adminifter
adminiftrators
adminiftrators
admirableness
admiralty
admire
admire

adequateness

adhere

adien

adjacent

346 AZU ANA AGI admonish agility ancestors adopt agitate anchovy agonize adorable animadvertion agreeablenefs animacule adornment advancement agreement anniverfary advantageous agriculture annov adventitious agrimony antichamber adventure aground antimonarchical alabafter antichrittianism adventurous adverfary antipodes albeit advertisement alchymist apocrypha alderman apoplectic advice adult alegar apparatus algebra adulteration apparition advocate alien applicable advowfon aliment archdeacon affability allegiance archbishop archetype' affair allegorical affectation alleviate argumentation affection alligation armada alligator arraignment affectionate affectionateness allowance arrogance affective almanack arrogate affiance Almighty arfenal afparagus affidavit aloes alphabetically affinity aspiration affirm already affociate affwage affirmatively alteration affix alternate affonish afriction affluence amain aftrologer afford amass aftronomy affranchife amercement affray amicableness attrocious affront amusement attribute anabaptist affusion avail aforehand anagrammatilt avarice aggrandize analogy auctioneer analytis aggravate authority aggravation axel-tree anarchy aggression anathema azure

anatomy

agile

BRA R A RA Barnefley B 39 33 Batchelor Rarnet beaux backflide achemi Barnstaple Beckernet : Beckingham backward barometer Beckles back wardness barrack becomingness barricado bagnip bedaggle hag-pine harrier bailiff barrifter Bedall hailiwick Barflead hedanh Bedford balance barter balcony Barton Bediford Bedlam balderdafh hafe halhful beech haldness Reelzebuh hale beefom haleful hafilisk Balineftoke beggary hallad ballaft Baffa belabour ballustrade Baffaley beldam Bamburga beleaguer baffet Bampton baffoon Relford belfery Banburyan baffrelief haffile Beleian Phanditti bandolier bastinado Belgic bane-berry baftion hellow haneful haltwick belfwagger battoon Beltingham Bangor banker hattalia helvidere bankrupt Relyoirecastle Bautre bawdry Banftead hemire Barbadion Bayborough Bemifter Barbadoes baynard bergamot marbarian . Beachley Berlin befoeckle Barbary beacon parbed Beaconsfield besprinkle beltridden iarhel beadle Bethkelert sparbles beadfman bethought aarber beard as Barbican Betley 32 Barmore. - beatific betony Barmote beau betroth Barnby heaver

L. E ROS BUC Blendor-baffet beverage hoffes blindfold Bofton Bewdlov blinkard hotanical hewildered botcher botchingly bewitch blockade Rewnianris blockhead bought Bicefter bloodfled bolting-mill bidder bloodshot hounce bigotifm bloffom boundary bilander blower bounteoufness hilboes blunder bowelled bowling-green Bildefton bluntness boafter bilions Bowtel hoarfwain bovish Billericay billet-doux hobtail braggadocio Billingford brainless hodice Billingham boggle heandairon brandish binder Bineham brandling boifterous biographer brandy Brafil holfter bravado bird-lime Birmingham Rolton brawler bishoprick bombardier brawn hiffertile bombail brawniness bombazine breaft-plate bondage breeches bitumen blabber boncfire breeding Blackburn bongrace Brentford blackmoor breviary bonnet : blackness hooby bréw-house Brickhill

blackfmith bookbinder bladder book-keeping Blaize bookfeller blameable book-worm Blandford boorish

blanket brigantine bopcep blafpheme bordage Brokenhurft borrower browantler blazon boscage brow-beaten Bolphorus buckfomeness bleat

bride-groom

brigade brigandine

BUR

BUE buckthorn hullock buck weed bully-rock Bucolics bul-ruth bolwark

Buddeldale hnm buddle bumble budge bump bumpkin

Budworth hunch buff bunchiness buff-coat bunchy buffle bun

buffoonery bundle-wife bug Bugdon Bungaye buggerer bung-hole

buggery bungle bungler bugle-horn bunglingly

bunter builder bunting

building Buntingford buoy bulb buoyant bulbacency buoying

bulbine bulbous Burbich bulfinch burden bulge burdenfone

bulk burdensomenes bulkiness bureau bulky Burford burgels burgeship bullace

od bull-baiting bull-beggar Burghdere burgher n bullet bull-herd burglar Bullingbrook burglary

bullian burgmote

BUT burgomaster burial

349

burlefk burling iron burley burn burnet

Burnham burning burning-glass burning-iron

burnith bornisher Burnley

Burntwood burrow

Burrowbridge hurfe burler burften burftennefs Burton

Burtonferry burt-wort bury bush bushy bully

> buskin buftard buffle buly but

350 CAM CAR butcher Campden carbonade hntcherly camphire butchers-broom campion butchery Canary-bird Cardigan butler cancer butlerage butlership Carreer harr Candlemas careful candleffick careles butterfly candons Carew Canibal botter-milk cargo butter-teeth tarlings bottery Carlifle Cannafton Carlton button cannon Carmarthen buttrefe Carmalite Buxton canonist tarmine canonization carnal canonship Carnarvan bnz carnation Canterbury carnaval cantharides carnivorons Bv.berry Canticles Carolina by-ends caroufe **Éantonize** By-ford canvass carpet by-lander capacious carpenter by-lands capapee carreer by-laws caper carriage by-place capillary carrier by-way capital carrion by-word cartel capitulate Cartefian Calvinif capon Cartholian calumniate caprice cartilage cambric captain Cartmel Cambridge

cameleon Camelford camlet camomile

campaign

captive capuchine carabineer caravan

cartridge calcade cafhier

Caffiore caffock caffaway

CHI CEL Caffle-comb cellarage charitable Castle-rifing charmer cement caltling cenfor charnel house chart callrate centaire cafual centine chartel. cafually century charter cafuid cephalic chafte Cerberos chaften da catacomb cere-cloth Chathan catalogue catarrah ceremonial chattles cataplasm chatter-pve certainty cheap cataract certificate catastrophe ceffation chequer'd catchpole chaffing difh cheek-bone cheer catechetical chaife categorical chalcedony Chaldee Chelford caterer Chellingford chaldron caterpillar challenge Chelmsford Catharine chamber Cheltenham cathedral chamberina Chepitow chamberlain. catholick cherith Cars-afh chambermaid Cherloury Cateriel champaign cherry ftone caterwawling chernhim cavalcade chance!lor Chefham chance-medley Cheshunt cavalry chancery Chetelhampton chandler chevalier caveate change Chewton-Mendin channel Chichester caveer chapelry chicken Chidingford cavernous capidron chapman chidingly caustic caution Chapelborn chieftain cautioufly character chilblain child-bearing charcoal Caxton

Childermas

Childham

chimerical.

chargeable

Charing

chariot

Caxwold

celebrate

celerity

CIR CLI COM chimney-piece cling circumvent China circumvolution clipper Chipcafe Cirencester clock-maker Chippenham ciftern clod-head Chipping-Norton clog Chipping-Ongar citation Chirk-caftle Clophill cite close chirographer citron chirurgeon civet clothier chitterling cloudiness chocolate civilian eloven choice clack clownifhness club-footed choler clad Cholmondely claim clump chorographer clam clunch Christ clandelline cluster Christ-cross-row clap clutter Christendom Clapham Clyncorug Christmas Clare coacervate Christ's Church rlaret chronologer clarification coadjutor chubbiness clarion Cobham Chudleigh clash cockatrice Church-Stretton clasp Cockermouth church-warden elatter co-efficient churlish clave coffeehouse chymical claufe Cogethall chymilt clay chymestry clean cognate Ciceronian clear co-heir circumference co-herence cohobation circumflex clemency circumfusion Clement coition circumjacent clenchers colander Colchester circum ocution elergymen collarage circumposition Clevedon circumscription collection claw collition circumrotation Cleydon colloquy circumfoection click circumstantial Cliffe-kings columbine

elimacterical

combate

circumvallation

CON C 7. A comber controverly crumb contumely cryftal. Comberton combination convent cub convultion enckold Combmerton cudgel comedian cook comfortable copious culmer culpable comical coquet comeliness Corbridge cultivation commandment cordial cumberfame corner cunning cupboard commencement coronation commensuration corpulence cor commodioufuefe corruption carable comparative colmography curate complaint cottage curb complexion curdle cover complement counfellor curiofity comportment courtship enrlew comprehention coward currans compression coxcomb curry concealment COV eurle concile cozen gurtain conclution erab curvet concoction a crack suffedy concubine cradle auftom condemnation craft -cut confabulation gra2 607 confection graggy evcle confirmation grambo. evcloid : conformable erane Cyclops congenial crape gygnet conjecture e cravat. gylinder conjunction erawl evmbal connexion crayon cynic conquer erew gynical confcience crimfon cyon syphon confignation erocodile confubitantial crookedness evpress confumetion erowd ezar contemp ation Croyden czarefs contradiction czarina

DEC DER DIS

D decipher derogate

Dagon decifive deferminen

dainties declaimer defignation

Dalmatia declaratively defolation
Dalmatick decocition defperado
Dalton and Gallel decorare delpicable
damageable decorum delpice
damnable decrepid defpiteful

damnable decrepid despiteful
dampilanes Deddington despote
Danby dedicate despote
dandelin definition despote

dandelion dedication detection
Dane-gelt deducible determine
dangerous defamation deteflable
Darby definition dethrone

Darisbury deformation detractor
Darlington degeneratenes diabetes
Dartford delectation diabolical

Dartmouth delegate diagnostic
Daventry deliberation dialling
St. Davids delicacy dialogue

daughter deliciousness diamond dauntlessness delightful diametrical

Dauphin delineate dictator dazzlingnes delineation dictionary deaconship delinquent Didmerton

Deal delirious Dieping-Market
deambulation deliverer difficult

deanship demi-god diffuse death-watch democracy Digby

debauchee Denton and Hall digestion debenture denunciation dilemma

debonairnes Denzil diligence
Deborough Dependale dilucidate
Decameron dependance dimension

decampment deplorable diminution deceitfulnes deposition diocesan depravation diploma

December deprivative direction decemvirate deputation disadvantage deception Dercham disagreeable

deception Dercham disagreeable decknation derivation disappoint

DIS diffafteful. doteril dishand doubtful disborden diftemper discipline diffiller Dove and Caff diffination doughtiness discomfigure Diftington discommode Doufabel diffinguish Downham discompose difconfolate diffraction downward diffrefsdoxology discontent discontinue diffributor drapery discountenance diffraffful drawback difcredit diffurbance draw-bridge difcreet dittander dreadful difcriminate divertifie dieamer difdain divertifement dredging box dividend dripping pan diferenmber diefranchife divination driveller diferacefuldivinity. Droitwich diffenesty divorcement drollery difingenuous divulce dromedary dropfical diflocate D-la-fol-re difloyal docibility drudgery difmember Docking drugoilt difohedient Dockley Draids difoblige doctorhin Drumborough document difparage drum-major Dodbrook Drufton Caftle difpatch difpenfer doggedness dubioufness displeasure Dolbenmen Dublin difpoffels dolefully ducatoon Dolgad-Van dudgeon disprove dispute Dolgelle dukedom disquiet dolphin duicimer domeffic Dulverton difrepute difrefrectful domineer dumbnefs diffatisfactory dominical Dunchurch diffemble donation Duncton diffention Doncaster dunchill diffimulation Dorchester Dunnow diffolyable dormitory Dunnington Dorp Dunftable diffolute Dorfet

duskiness

diffwade

E BO ELA F. M R duskifh ebullition Eland dusky eccentric clanfe duff . Eccles elasticity dufter ecclefiaftic elder duttinefs echo election dufty cclipfe elector ecliptic clegance eclogue dutcous elegy dutiful ecftacy: elemental dutifully edacity elephant . dutifulness eddy elevate duty Eden eleven duumvirate edia Elham dwale edification eligible dwarf edifice dwarfifh edition elixir dwell education Ellefdon dweller efface Ellefmere dwelling effectual ellipfis dwindle effeninate elogy dyer efficacious clope efficient dyers-weed eloquence Dynas-Mouth effigies eloquent dynasty e.fflation Elstre dyfcracy effluvium Eltham dyfentery efflux elucidate dyfury effort elucubration effrontry elulion effulgence Earl Elyfian effusion earnest ear-ring egellion emaciate Eglestonbridge earth emalculate earth-quake embale

carocit eflution Elzivir
earth gelfion emaciate
earth Eglefloobridge emalcula
carth-quake egregious embalm
cafinefs Egypt embargo
Eaft-Ham Fgyptian embarts
Eaterton ejaculation embarts
Eaton

Eaton ejection embaffy
eaves-dropper Ela embattle
Ebionites claborate embellifa
clopy E-la-my embezzle

ENF E.S.T emblem enhemeris emboss engine Enhialtes engrave embowed ephod embo wel epicure enerofs embrace epicurean embrocation enhance epidemical embroider enigma enigram embroil eniov epileptic enlarge embryo epilogue enlighten epifcopacy emerods eminent enmity episode Emley ennoble epiffle emolument enormity epithet emotion enrage epitome empannel enrich epitomize enrole . Epping emperor emphasis enfamole Enfom empire enshrine Eoworth employ enfign equal empreis equator entablature emulate equilateral emulgent entangle equinox entendre equip enamel entercourse equity enterprize equivocal encamp eradification enchant entertain enchiridion enthral Ercol and Caftle enclosure enthrone erector enthulialin encourage encroach entice erratic encumber entity error endear entrails escheat endive entran eschew efcurial endow entreat efcutcheon endure esponsals enemy envious efquire environ energy coumerate Effencs enervate enunciation enfeeble eftablifh estimate Enfield envoy enfranchife epact Effri-Divodoch

explain.

explanation eternal Ethiopian explication Fabulous etymological explicit facetious explode facilitate evacuate evangelical expound facility encharift express faction expulsion event faint-heartedness eventilate expunge Fairford evermore extend Fairleigh everfhalt extent Evelham fairy exterminate evitable external extinguish Eunomians Euphrates fallacious extirpate fallible Europe extol Falmouth evultion Califier exactor extraordinary familiar exchequer extravagant familift exclaim extreamly famine exclude extricate famous famouffy execute extrude exemplary fanatical extrution fantaftic Exeter extuberance fantaffical exuberance Exmouth fantom Exodus exuberant exuberantly fardingale exonerate exorbitant exulcerate Farnham exorcife exulceration farinaceous expand exult farmable expatiate exultation Farnborough expectation Farnham exuperable farrier expedient eve expedition eye-bright Fardingdon expel eye-brow farthing expensive eye fight fascinate experiment eye-fore fashionable expertly eye-teeth faltidious expiration faitness Eyton expire falting Ezekiel

Ezra

fatalty

FPC FLA FIL O fatherles fictitiousnels flagitious fiddle flagrancy fatigue fidelity flagrant fierceness flagrantoefs favourable fawningly fieriness flambeau fifteenth flamiferous Fearfully figary February. flanconade figment Flanders Feckingham figurative flanker feculent fecundity filament flashiness filanders flatness federal feebleness Filev flatterer filiation flatulent fecilitate filligrane fell monger flauntingness fellowship fillip flaxen filter fleetness felonious filthiness flegmatic Felton filtrate female Flemish femining filtration fleshiness finable flefblinefs feoffment fermentation finance flexanimans find flexibility Fermingham finencis flexibleness ferocity finger's-breadth flimfiness Ferrybridge flimfy fervent finisher flinchers flippant finiteness fervency firmament flippantness firmly flittermoufe fervently first flix- weed firftling fetlock flotage fifcal Flora fisher-man feverifh Florence Fishgard Feversham florentine fewel fiftu!a florid fixedness F.fa-ut floridness fiz-gig flounce fibber flabbiness fiber Hounder fiberous flaccidness flourish flagelet ficklenefs flouter flagging flower-de-luce fictitious.

260 FOR fluctuate fluctuation Anellin fluently fluidity flummery fluffer'd flaxibility focillation fodder foggishness Fokingham foldage foilage follower fomentation fondling fontanel fool hardiness fool-hardy foolifhness footman foppery foppifhness forbearance forbidden forceps forcible fordage fore-appoint fore-arm'd fore-caft

Fordingbridge fore-close fore-deem fore-door fore-fathers

fore-finger fore-front foreigner

fore-indge fore-know fore-knowledge fore-noon fore-ordain fore-runner fore-fpeak

fore teeth fore-thought forgetful formality fornication forfake forth-coming fortification fortitude fortunate forward Folton

Foulkton foulness foundation foundling Four Croffes fourteenthly Fowey or Foy fowling-piece Fowr-hope fractiousness

fragrant frailty France fraternity freehold friendship frolicksomeness fructification frugality frying-pan

faturity

gain-fland galbanum paleons gallantry gallery calley galleo-foift galley-pot Gallican pallicism gallion gallop galloway galoon gambol gamefom

gamester

gammot

gamut

GAR

Gaddingly

gainfully

Gainsborough

gaggle

gang Ganges Ganymede garbler garbles gardener gargarifm gargarize garland garment garnish garnisher garnitut garretteer garrifon garrulous

GEO Garftang Galcoigne gaftlinefs Gates-Head Gatton gaudinefs gaudy gavel-kind gavelock Gayton gaze-hound gazette gazetteer geele geldable gelding gemination geminary gemmow genealogical generality generofity generouineis Genelis Geneva genialgennet genteel gentlewoman geography

nglish Spelling G. L. O.
geomancy
geometrician
Georgies
geofcopy
St. Germain
germination
gerundive
gestation
gestliculation
Gateabridge
gew-gaws
ghoffliness
ghoffly
giant
gibble-gable
gibble-gable

giant gibble-gable gibbous giddiness Gigglefwick gigglet gilder gilder gilder girler girl girt Gisbon Gisborough gizzard eladiator

gladness Glamfor glanders Glaffenbury glazier gleam glebe Glew-great glitteringness

glitteringness globular Glocester gloominess

nets H h glorification glorioufness gloffographer glow-worm glutinous Gnatho gnomonics Gnoftics goaler goatifh

gnomonics goaler goatifh goatifhness gobblet Godalmin Godmother Gofford Gofforth goggle-ey'd goldilocks Golgotha Gomer gondolier gonorrhœa goofeberry gorgeous gormandizer gormandize gofpeller

goffipings
Gothic
Goths
St. Goven
governablenefs
governefs
governor
gracefulnefs
gracioufly
gradual
Grafton
Graics-Thurrene

GER orammarian Grampound grampus granadier granado granary grandame grandee grandeur grandfather grandmother grandfire grangum grant grantee Grantham grantor granulation graphically grashopper graffy gratefulness gratification gratings gratitude gratulatory graveness Gravefend grayhound grazier grealiness greatness Greci'm Greece green green house greennefs Greenwich

GYM Gregorian crew grievoufnets grimnefa Grinsted Grifmond griffel grittiness grizlines groan grogram groom porter groop groove gross grotesk grotto grovelling ground ivy group grout-head growl grubbage gruel gruffness Grynton grumble guarantee guardian gudgeon Guild-Hall Guilford guiltless guinea gun gun-powder gush gutter Guy gymnastics

HAR gymnofophift gyration Habitation hab-nab Hackney haddock Hadley Hadenbridge Hadího haggard Haggerston Hague hainous halbart halcyon Hales Owen Halefworth half-moon Halifax halliards halloo hallow Haltfield hamlet hammer hamper Hampton ham ftring handkerchief handmaid handfomeness handy hanger on Hanly Hanmere hans-en-kelder happiness harangue harass

HER HOL HEA harbinger heathenism Harborough Hertford Harbottle · Castle heavinels helitate hardy becatomb Hardwicke heterodox hair brain'd hariotable hexameter Harleigh heir-loom Hexham harlequin hickup harlotry helialical hidehound harmful hellebore hideoufnefs harmlefly hierarchy harmonious Hellespont hieroglyphic harness hell-hound Highgate Highworth harpooneers harofichord helm highness harfhness Hilary Hartlenool helpfulnefs Hilborough Helfton Hindon harvest helter-skelter Hingham Harwich hemicycle haffock hemlock hippocras haffinefa Hempsted hiffing Hastingden historian hateful hen-hearted historiographer hithermost Haverford Herculean Hittites haughtiness hereditament Hivites hereditary hoarfencis hautboy Hereford hobgoblin Hawkshead heretically hodge-podge heretage hoggishness Herling hazardous hog grubber headborough hermaphrodite Headon heremetical Holbeach heathful hermodactvl holioak hearkener herenshaw holiness heart-burning Herodians heartiness hollowness heath-cock heroine Holy well

Hh 2

261 An English Spelling Dictionary. FF FT HYP hug

homage home homeliness Homer home-fono homicide homily homogeneous homologous honestness honey-comb honey-moon honorary honourable hook hooked hopeful hopper-ars'd hops Horeb hore-hound horizon horizontally Hornet horological horofcope horridgefs horfe-leech horfemanship horfe-raddifh Hofanna hospitable hoft boffile holtileness hot-cockles hotness hotch-potch houshold

hubble-bubble

hucfter

hugeouffy hugger-magger Hugonut humanist humanize humanly humbleness humid humidity humiliation humoria Hunanby hunch-back'd Hungary hungrily hunks hurlers hurry burg hurtful husband Huffars Huftings hutch huzza hydra hydraulics hydromel hydrometer hydropical

hydrographer Teffrey Iehovah hymn hyperbole hyperbolical hypochondriac hypocrify hypocrite hypoftatic hypothetical

F. W hysteric hysterical hystericalness Jacobite iail-bird Tamaica

Lambic iangle Janizary iannock Ianfanifm January Tapan apanner iar jargon avelin iaundice

ichnograpica identical idion idiomatically idleness idolate icalous ieerer

ichnography

iciune ennet copardy erkin effamin jefter Tefuit Tefus ieweller

I M M immenfe

ignoble ignominious ignoramus ignorance ionoscible illegal

illegitimate ill-natured illogical

illaftrate imagery imaginary

imagination imbalm imbargo imbarkation

imbattle imbellifhment imbibe imbitter

imbolden imbofom imbrication

imbroider imbrue imitable

imitative immanent

immaterial immediate

immerle

immoral immovéable impale

imparlance impatience

impenetrable

imperious impertinence

impetuous

implicit imployment impolite imporous

importune imposition imposture'

impotence

ING impoverfly impracticable 365

imprecate impress impression imprimis imprint

imprifor improbable improper impropriator improvable improvement

imprudence imprudent impugn impunity inaction inaclivity

inadvertency inalienable inamorato inaugurate : inaufpicious

incamp incantor incapacitate incapacity incarceration incendiary incenfe

incentive incertuous

INC IN N incircle indearment incitement inclemency indecorum indefatigable inclofure indelible include indennity inclusively indenture incognito independent incoherent incommode India incompact Indian incomparable incompass indiament indifferent incompetent incomplete indigence incompose indignitate incomposed indignation incongruous inconnexion indirectly inconfiderate indiferent indifcretion indifcriminate incontinent inconvenient indifoenfable indisposed incorporate incorrect indifinitable incorrigible indiffinat inditable incorrupt incounter individual indivifibility incourage indocible increated incredibility. indolence incredulous indorfe indubitable increach incumbus induce inculcate induction incumbent indulgent indulto incumbrance indurable

indurate

innumerableness

incurable

incursion

IX W inobservance inoculation inoffentivencle inordinate inquiet incolment infatiable inscription infeparable in@rument insupportable interwavea inthralment intolerable intrenchment inveterate invincible invulnerable Ioan Tob oiner iron irrecoverable ifthmus inflification Instinian iultle jutty invenile uvenileness juvenility iev Lyworth

KIC kidder kittle K Kavage Kidderminster klittering kedser kidnan kidnapper knack keelhalling keen kidney-bean knag keenness Kigworth knaggy keeper kilbuck knap kilderkin knappifh keeve Kilgarren knappi/hnefs Kilham Kellington knappy Kelmark killer knapfack kelp kiln Knaresborough kelter kimnel kin kembo kind ken knead Kencall kneader Kenford kindness knee holm kindred kenks knert kennel Kineton kennets kingdom king-like knevels kingly knew Kingsbridge knick-knacks Kermes kern Kingston kernel knight knight-hood kerfey kerstrel kinfman Knighton Kefwick kinfwoman knitter ketch kintal kittering kipe kettle Kirk-Burton knobby Kirk-Ofwald Kettlewell knock kex key Kirksop Foot knocker. kirtle knocking Keyworth kihe kitchen kibe-heels knop kitling knot

knotted

kickshaw

L A P LEG knotril lapwing knottiness larboard larceny know larder knowingly large knowledge Larlingford lasciviously lathers knuckte knurling Lateran Krickieth Kyneton lattern laudableness Labyrinth laudanum lachrymation lavender laughing-flock Laconic Laving-East lady's-bed ffraw launders lawlefs Lamborne lay-brother lamentable Lammas Lazarole Lancafter. leaf leaguer land call Learmouth learning Landrino laad-lopper landskip letcherous Langport lechery language Languard-Fort Leeds languidness languor leefe lankness leeward-way lantern lapidation legacy

LIK legible legiflative legitimate Lemington lemonade lenity leopard Leffian Letice levee Liverpool Levitical lewdness Lexicographer Lexicon liableness libellous liberality. liberdine libertine librarian licentioufly Litchfield lickorifhnefs lictors lic Lieutenancy life guard ligature lightning likenefs

LUX T. OF T. O II hlack lantiness logarithm Lilburn Louth logarithmical Loughborough limberness logger-head Low countries limonode' log-wood Lowther limpness loin loxodromy lovalness : loiterer lineament Lombard lozenge lubricity London. linguil lonefomeness long-boat liniment link-boy longanimity Lucifer' linfey longevity lucky longitude lucrative Long Meg Lionel lucubration liquable: Luddefton Longnor liquation long-thanks ludicrons liquefaction long-winded Ludlow looby liquor Luffenham liftener looking-glafs luggage loom luidore literally loon lukewarmly litigation loop luminous lumpifhness litigious loop-lace Littleton loofeness lunacy liturgy lop lunar lopper lunatic liveliness loquacious lungwort lixivious loquacity luscious loidliness lixiviom luftful lorimer lustiness lobby lunatilt lobs-pond lot Luther localness lothfom Luton lottery Lutterworth locram locust loudly luxate Loughton locution luxation lodgment lovingness luxurious loftiness Louis d'ors lv

MA lycanthopift ivcanthropy lympha lymphate lymphatic Lyn-Regis lvre

Maccahees Macclesfield mace-bearer macerate Machiavilian macination machine

lyrift

mackarel madam mad-cap maddifh madness madrigal magazine maggot magic

magician magisterially magistrate magnanimous magnet magnificate magnificence magnify mag. pye

Mahometan maiden majestic maielty

mandrake manfulncss mange mangle

main-maff main prize maintain maintenance

major make-hate malady Malaga malapert male-content malediction malevolenge

malice malicioufly malign malignancy malkin mallard malleableness

Malling-West mallows Malmsbury malmfey Malpas maltfler

Malvern Magna Malvern-Perva Malwood-Caftle manmock manimon Manchefter mandamus

mandarin mandate manhood Manichees manifelto mankind manlines manna mannerly

Manningtree Mansfield man-flaughter manteau mantlet manuel manufactory manure manuscript

maple Marantha marble Marchal-marfa marshioness Maresfield Marforio Margam marigold mariner marioram maritim Markham

marker marketable Market-Street Marlborough Marlow marmalade marmalet marmotto marquess

MA MED MER mattock mediator marriage Mars mattrefe mediatrefs medicable maturate Marshalfea medicinable marth-mallows medicinal maulkin medicinally maunder martia mediocrity martingale Maunday Mediterranean Maitlemas medullary Martinmas maw-worms melancholic melancholly Martock maxillary martyr maxim melaffes Maximillian martyrdom martyrology Mid-day melilor marvel mayor matvellous mayoralty melifluous mafculine mayores mellow May-pole Matham mafon mazarine melody masquerade meltable Melton Mowbray maffacre mead maffinefs meadow member mafterless meagre membranaceous master-piece membrane mastership mealy-mouth'd memoirs maffich memorable mean mafliff Menander memorably materiality memorandum mathematical meanness memorial mathematics meafurable memory meafore matins menace meawing matricide meazles marticular meazly menfes matrimonial mechanic menfurable menfuration matrimony matrix mechanism mercantile matron mercenary matroffee medallion matted median mercenariness mediate merchandizing matter

372 MOR MIG MIS. migration midharft merchandize millinele merchant mifufe Mercury mildew merciful mildness mittimus mixen Megram millener mixture Meriden mob meridian Milthorn meridional Milton mock Modbury mimic merit meritorious mimical model mimickry moderate Merlin moderation mermaid modefty merriment modefie Minerva Merton minew modulation mels mingle moistness mefentery meffage miniature moleffation minion Moloch meffenger Maffiah minister moment monarchy meffuage ministration Monday metal minstrelsev metalline mongrel miraculous monkey metaphrast monochord metaphor mirror nionopoly mirth meteor monfoon metheelin misadventure Montonift misbecome method methodist miscarriage mifcellany monument metropolis Michael mischance Michaelmas misconstrue moor-hen micrography mifdoubt micrometer moreover microscope Morgan Midhurft milmanage Middlewich Morocco mifname midshipman milpend Midfummer mifreckon

mif-shapen

millaken

inortgage

Morton

mid-winter

mightily

NET mosque Narciffus parrative motherly moveable nativity moulder mountebank naturalize Monfhole naughtiness navigable mourner month nanteons Nazarene much nebulous muck-worm muddinefs necessarily necessitous multiply neck-cloth multitude Munfter necromancer Muntford murky needfulnefs muscle needle Mulcovy nefarious mulic negation negative mushroom musket negligence mutable mutation negociator neighbour mutter neighing mutton mutual St. Neots nephew muzzle Myriads nephritic Myrmidons Neptune myrrh Nereids myrtle nergal mysterious nerval mysteriousty nervous mysteriousness neftling mystery Nestorians mystical Netherlands mysticalness nethermoft mythological nettings mythologift nettle . mythology

never-more Nevern neurology neutral new-fangled Newgate newnels Newark Newborn Newburg Newhork Newbridge Newmarket Newport Nicene nichils St. Nicholas nick-name nick-ninny Nicolaitans piece niggard nightingale night-raven night-shade night=walker Nilometer # nimble nimbleness nincompoop ninety ninthly nipperkin nipple nifi-prius nitrous nittiness

An English Spelling Dictionary. NOR NUC nobleman North-Fleet nuddle poblenes nudile nocturnal North-Leech nudity noddy northward nugatory nodonfacts Northwich nullifie noggin Norwich numberlefe mole numerable poifines nofe-gav numeral nomenclator noffril numerator nomenclature noftrum numerous nominal notable num-fcull nominate notary nunciator nomination notation nuncupation nominative nothing nuncupative nuncupativeness non-appearance non-compliance notify nunnery non-conformilt notion nuptial non-conformity notional nurfe Noncaton notoriety DUITING nonentity notorioufness nufance non-naturals Nottingham Nutley non-plus notwithstanding nutmeg non-refistance Novatians nutrition nonfenfe novel nutritive nonfenfical novelift nuzzle non-folvent novelty nymph non-fait November nymphal nook novennial pooning nought noofe novice Normal novitiate

Norman nourifhing oatmeal -Norrov nourishment pourish ohedience north now obeifance North-Allerton noxions obelisk Northampton noxiousness

North-Bury nubble objection North-Church nubbled objector North-Curry nubilous northerly. nuciferous oblation

ORI OIL obligate oilet-hole obligatory occupier oblige ointment obligee oifter occurrence obligement Okeham ocean oblique Okingham Okehampton obliterate octangular oker oblivion oblivious octavo oleaginous oblong octogon olifactory obloguy ocular olitory obnoxious ocularness Olympiad ohnubilation oculift Olympic obscene Ode-hill Omberfley obscenely odious ombre obscenity Omega odiouffy obscurity odor omen obsequious odoriferous ominous obsequies odorous observable œconomy omnipotence œconomics omnipresence observation offend omniscience observator offender onerate observatory offentive Ongar-High observe offering obfolete offertory opacious obffacle office opakness obltinacy officer open-arfe officiate obstinate operate obstreperous officious operation obstruct officioufness operator obstruction off-scouring ophithaltic ohtain off-fets opiate obtrude offspring opinion obtruder often opinionative obtrutionoftentimes opinionated obviate Ogborn St. George opium obvious ogee occasional ogle opportune occult ogling opportunely occultues oil-bas opportunity

OR OST opposition oriental ofteology oppression original oppreffor originalness opprobrious Orion Offrogoths opprobrium orifon Ofwellry oppung optic Orkneys otherwise optic-glafs Orlanda opulence Orlop Ottoman opulent Orlton oracle Ormskirk ovation. oracular ornament onbut orange ornamentalness ornithologist orangei y over-act oration ornithomancy over-balance orator Oreoneko over-hear orphan oratory. over-board orb orphanism over-charge orbicular Orpheus over-clouded orbit orpiment over-done over-eat orrice ordalain orthodox over-grown orderer orthogonal over-hallinels orderlines orthographer over-laden ordinal orthographical overmatch ordinance orthography ever-plus ordinarine fs Orton over-power ordinary Orton-Maddock over-poile ordination orvietan over-reach ordnance ofcitant over-feer ordonnance oscitation over-shadow ordure ofier Overton Orford Ofiris over-top Ofmandflon overture organical Ofmund-Royal over-turn organicalness ofprey over-value organist Oftend over-weening organization offenfive overwhelm organiz'd : oftentation Ovid

oftentatious

Ovingham

PAR PAL nigag ovinarous Palatine -Oulney papiftry paleness palinody pappa onnce Onfe palifh Papplewich Palladium out landiff pappiness outward pallate par out-lawry palliation parable Pall-Mall parabola outragious palmer-worm parabolical outrun Paracelfus outwardly: palmestry palm tree paradife out-works palpable paradox onzel Owen palpitation paragraph Pallgrave osuler parallel palfy owner paralytic Oxford paltry paramour paraphrase Oxwich pamper pamphlet paraphraftical oxygon. over pan parafceve ovez panado parboil ozier pan cake parcel Pancras parchment pardon Paddington pancreas paddle pardoner Pandects pander

padlock padnag Pandora Paditow panegyric Padua pangs paganism panic pageant pannage pagod pannel Pamphill pannier pain pant Pain's Castle painful painim paint

panting pantaloons Pantheon panther painter pantofie paintstrainer pantry palace papacy palatable papifm

parentage parenthefis partitioner parley parliament parliamentary parlour parmefan parochial. parole parricide party parfimonious parlimony. pariley. parfnip parson .

PER partake patriot pencil partial the patriotifm pendant participate patrol Pendennis Callle participation pendulum participial patronage penetrable particle patronize penetrate particular Datty penetration particularly pancity Penguin parting bave peninfula partifan pavilion Penistone partnership paule penitent partridge pen knife pawn pash pawnbroker pennant payable pennilefs palouin payment Pennyltone paffage Pennyfont peacock pasienger pearmain pennyroval peafant Penruddock paffiblenefs paffible pebble Penryn peccadillo paffion Penfance paffionate peccavi penfion paffire pectoral penfionary paffover peculiar penfive pedagogue paifport pensiveness pastime pedantic pentagon paftry pedigree pentateuch pastry cook pedo baptifm peerdom patacoon penurious natcher peevish pepper peevishness peradventure patch box patentee Pegafus peragration ! perambulation pathetic Pelagians pelican pathetical perceive patience pelmel perception patientness pelt monger perch Pembridge patriarch perculation patriarchship Pembroke perdition patrician penal perduration penalty peregrination patrimonial patrimony penance peremptory Patrington peremptorily pence

PO M PER perenial perseverance philosopher perfevere philosophical nerfect perlift phlebotomize perfection perfonable phlegmanienels . perfidiouspersonage Phofphorus perfidy perforate personality phrase personate Phrygian perforce perform perspective physic . perspicuity phylognomy perfume perfunctory perfpicuous Dizza perspiration pickage perhaps pericranium perfusiwe Pickering perfuation Picts perfuafiveness pierce periodical pertain piemy peripateticpertinacious pilchard periphery pertinence plant periphraftically pertinent plantation perturbation pleafure perifh Peru pliant perishableness pervade plough perverse plumb periury pervert plunder periwinkle pervications Plymouth permanent Peruvian pneumatical pestilence poach permission petardeer pocket Peterborough poetry permutation pernicious Peter-Church poinant pergration . Petersfield political perpendicular Petherton-South politician Petherton North polither perpetrate petrification polite perpetual perpetuation pettifogger polling perpetuity pettulancy Polverbatch phantaffical polygamy perplex perquifites Pharifee polygraphy Persbridge pharmacentic pomander philanthropy pome-citron Pershore Philip's Norton pomiferus persecute philologer pommel

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PITER puffing pompous parring pond pugil ponderous purflain Pontennol pulchritude purfuance pontificate Pulford purfuit Pontepolen pursuivant Pulhely popinjay pullet pulmonery purveyance pulpit purulent portcullis pulfation pash-pin pulillanimity Postfmouthpummel puffulous possession pumkin. but postage pofferior punchanello putative posthumous punchion putid punctilio put-off potentate punctuation practicable puncture putrefaction pragmatical pungency purefie praife pungently putrid punger putridness preacher puttock precarious precedence punishment predeffinate punk pybald pre-eminence puppet preference puppy. pregnance purblind pylorous prejudication purchase pyramid prelate pureness pyramidal premature purgation pyramidiod prenomination purgatory pyromancy: pre-occupy purification pyrotenchny prepofterous puritanifm Pythagoras presbyterian purling Pythagorean public purloin Pythonels pudder purport DYX pucrility purpole

quarrelfome quibble Quadrageffima quarrelfomenels quick quadrageffinal quarry Land quicken quadranelé quart buickly quadrangular hnickness martan quadrant quarter quickfand quadrantal quickfet quarter-day! quadrat quarteridge bouickfilver quadrate quick-fighted quarterer quadratic quick-witted quarterly quadratix quarter-mafter buicky-tree lag quadrature quarter-round quid statit quadrimonial quarter-fessions a quiddany quadripartite quartern The quiescence quadriparition quarter-staff quiescent quadrifyllable quiet quarto quadrivial quash quieter quadruple quietifm quaver quadruplication quietist quean quaffer quietly. queen quag-mire Queenborough quietness quilt queer quaint queerness quilt quaintly quell quince queller quincunx quake quench quinfy quaker quenchable quint quakerifm quencher quintain qualification querent quintal quinteffence qualifie querift qualifying querk quintessential quality querulous auintil qualm query Quintilian qualmifhness quest quire quandary quirifter quest-man question quantity quit quarctian questionable quit-claim

questionablenes

questionist quit-rent

questiontes quiver

queftor quoted

quite

quarrel

quarreller

quarrelled

quarrelling

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REC R Ramsbury raze Rabbi Ramfey ram's head Rabbin readiness rancid Reading ----rancour Randal re-admission racket re-admit random rackoon radiancy ranger realize rankness realm endicalness sankly ranfomi re-animate re-afcend ranfomer radicate raddifh rantipole reaper rapacious rear-guard radius reason rapid Radnor re-affemble rapine re affume raffle raparce re baptize rapfody rage rebate rag-bolts rapture raggamuffian 15 rebatement rarely rebel rarity ragged Ragland-Caftle rebellious rebound rafcally rag-man rebuff rafe ragoo rebuild Rason-Market rail rashness railery recal razor Raimund recapt ratafia rainhow n rather recantation rain-deer recapitulate ratification rain recede raife receivable rational rake rake hell rate-hane rattle receiver-general rakish rattle-fnake Raleigh recent ravelin recentness Ralpho Raven-glass recefs ramazan ramble ravenous. raving ramage reciprocal raving-mad ravisher rammer

faci

RED	REL	RYE
recital	re-deliverance "	
recitativo	Redford	remain de la
recite	ridiculous	remarkable
reciter	redouble	remedy
reckoning	redound attame	remember
reclaim	Redruth	
recline	Red-fea	remnant
recognition	reduction ordigm	remonstrate
recognize	redundant rolgens	remorfelasion
recognizer	re-edificacionismo	removeable
recoil	re-entrapee if as	rencounterotte
recollect -	re-establishaoifbas	
recollection	re examination	
recompence	reference in the second	Tenovation 11
recommend	refinement	
recommendation	reflexion	renown
recompense	reformation	rent flubent.
recompose	refractory	repair trange
reconcile	refresh assons	reply non
reconcileable	refulge musibas	reprint / acri
record		1 chioacii
recorder		reproof
recover	regality	repute
recoverable	regard	refemble
recount	regeneration	refolve refolute
recreate	regiment	refort
recruit	region	rest
rectangular	register	rheumatism
rectify	regular	rich
	rehearfe	riddle
Reculver	reject	ride
recumbence	reign	river
recumbent	re-imbark	robe image
recurrent	rejoin	rogue
recussion	rejoice	Rome
Redborn	relation - Galler	royal
Redbridge	release	rude
reddish	relent	run
redeem	relief	rulh
redeemer	religion	Rye
-030011141		

An English Spelling Dictionary. 284 S. C. A Satisfa Tion Lalubrious Cationie Sahellians falver Cattin Sahines idea falvo .Saturda v fable falutary Samaria Saturn Chre Samaritan Sabridgworth facerdotal Samech fatvr fatyrically fack-cloth famphire , fampler facrament . 1-101 - fanctification favageness fauce-box - fanclimony facrifico atomo fanction · fandtuary fanciness faulage Gaddle Saddleworth fandbag fand-blind Sadducee Cofe-conduct Sandbury fannter fand-cels fafeguard. Sandgate-Caffle Caffron Sandhurft Savov Saffron Walden **fagacious** fagely Sandown-Castle Sawthey Sagittary Saxmundham fainfoin fandy Sandy-Chapel Saxon falamander falary Sanhedrim fale **fcabbard** Calefman fanter Calique fcabbinefs faliva Saracen farcafin falivate fealding-hot farcastically Salkeld fai fenet falmigundy faffafras fcandal. Calmon. Satan Saltash fatchel **f**cantinefs

fatellites

fcaramouch

Scarborough

fatiate

fatiated

Saltfleet

falt-petro

SCR SEC SRN fcarcity fecretary. fcreak feet. Care-crow fcribe fectarian. fcriptural fearlet featter feripturist fection. fcavenger fecularity fcrivener ferofulous fecureness feeleton Scene Centinize fedan foud away fcenography fedate fceptic fculk Sedher fcull Sedbury fcepter fcheme. fcullion Sedgefield fculpture Sedgewick fchifm foum : fediment fcholar feditions. Cholaftic : fcupper hole Currilons feducer fcholiaft. **fchool** fourvinefa feduction feek School divine fcutcheon feem Schoolman feymitar Scythia feen (cience Scythian feethe fcimeter. feize **Cirrhous** feythe fciffors Sea-chart feldom \$coffers fea-faring felect Sea-ford felf fcold foolding fea-green felfish felf-evident fcollon-shell feal felvage fconfe feamfter Sean femicircle fcooper fenticelon fea-port fcore fearch feminal ... fcornful fear femi-vowel fcorpion. fear-cloth fenate Searn fend Scotch Scotland **feniority** Searn-Abby feafonable fen-night fcoundrel Sehaftian fenfation fcour fcraggy fecant fense fensitive fcramble fecellian fcrap feclution fenfory fecondarily fent fecret fentence fcratches |

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286 SPI SHO SKI shallow Shrawarden Skinningrave Skirking fhaloon fhrewdly thambles. Shrewsbury wkirmifher skittifhnefs fhame-fac'd fhrivell'd fharp thrubbiness. sky colour fhinefs fharper. Sicilian Canderous sharp fighted flavishness fharn-witted Sleaford fide-board fleeveless flightness Shaw-Crofs Sheals N. and S. Sidland flipperiness Sidmouth floe-worm thear-man Anthiulnels fieling sheep-cote fightless fluggard the epithness **fmackering** Sheffield fignal figuet fmectymnuans. Shepham **fmitter** fignification shepherd Smokington tionifie Shepherdess fnap-dragon fneakingnefs Sherborn filentness fillabub Socineanism Colemnization therry folicitude Sherlton Silverton Solomon's feal filver-fmith thew-bread Somerfethire fimonical hifter fongster fimper fophistical fimpleton fhilling Shiloh imulation South Moulton fhin-bone fincereness South would fhingle finewiness fingleness fracious thipwash. fingularity Spangle Shipwrack Grenizing Spaniard thirten Sittingborn fpeaker fhittle-cock Specifie fhop-keeper Sittingham foectator thop lifting fpeech

Shoreham-New skegger-trout fhort-fighted Skellingthorp Sphinx Spilsby shoulder skepticalness Choulder-knot skilfulnefs fpinage

SPR S.T A foinal foread fauinancy Spinet fprig fquint-ey'd fquire frinner fpinfter foring fauirt fpring-tide St. foire flah fpirit fprinkle ftable foiritua! fprit fail Stabridge fpiritualness fnit fpruce Asch Stafford foire forung friteful forunt ftage fpittle flagger folath flagnate foue fplatch Stagarite foume fplay-footed fpun foleen founge fplendid founk ffairs. Aske folendor four folenetic fpurioufnefs fale fplent fourkers ffalk folice faurn ffall Stamford folia four-rial fpoil fourt ftamp fpoke Stanbridge fooke (man fquab flanch fquabble Cooligation fandifb fquadron fpondee fqualled Stanford fponfal fqualley [pontaneous fpool **fquander** Stanhope fquareflank fpnon fport fquareness. flannary fquash fportful. Stanton flanza fnot fquat fpotless fouawl Stapple fpoule. fqueak Starboard [queal ftarch (pout fqueamish fprain fprat fqueeze farling fquib farry forawl fquill fpray ftare

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ST	F STI	R STU
flartup	flink	ftraw
flarve	flint	ftray distant
Rate	flipend	ftreak
flatefman	flipulate	ftream
flationer	Rir	fireet
Statue	flirrup	ftrength
flatute	fitch	ftrenuous frenu
flave	fliver	ftrefs
stay	flock	ftretch
flead	flockings	Stretham
fleak	Stockton	firew
fteal	Roic	ftricken
steam	Stoke	ftrictnels final
Stebbing	ftole	ftride
fledfaft.	ftomach	ftrife land
fleed	ftomacher	ftrike
ficel	Stone	ftring
fleep	flood	ftripe
fleeple	flook	frive
fleer	flool	firode
ficerer	noop	firoie
ftem	ftop	ftrond
ftench	ftore	ftrong
ftep	Rork	ftruck
flep-fathe		ftruggle
flep-moth		ftrumpet
fteril	flote	ftung
fterling	flove	Stubbed
ftern	flout	ftuble
flew	flowage	ftubborn
fleward	ftraddle	fruck
flickle	ftraggle	feud
flicky	fraight	frudent
Hiff	ftrain	ftuddy
fliffe	firait	ftuff
fligmatica	d ftrake	frumble
Itile	flrand	ftunt
ftill born	ftrange -	ftupendous
Stilton	ftranger	ftupid
flimulate	ftrap	ftupify
fling	Stratton	fupifaction
44448	Dittitution	

Sturbridge fuperlativeness Sturminiter fpupernumerary futteringly Superstitioufness ftypticness **fubaction** fubaltern fub-confequence Condivision fubjection. Subjunctively fublientenant fublimation. fubmer!ion fubmilliveness

fubordinateness fubscription fubservientness substantialness Subterganeous fubtraction. foccedaneous fuccefsfulnefs fuccinctness. fucculentness fuccumbent fudorificness fufficientness fuffumigation fuitableness fulphurous **fummariness** fumptuouineis Sunderland

fu perabundance fymmetry fuperannuation fupereminence **fympathize fuperexcellent** fymphony fuperficialness fuperfluoufness fynagogue fuperintenacut fynchronifm

fupervention fupportableness **fuppressor** funramundane funremenets furgeon furpassinoness furround fulpicion fnels fustenance [wagger fwarm fwear Iweep-flake fweet-heart (wept fwimmer. fwine-herd fwinishness. Switzerland fwordfman fycophant fyllabically fyllogiftically

funcopation . fynod **fynodical** fynonimous fynoplis: funtherical. fyringe fyrup fyftem fystole

Tabernacle tablature tabular tacking Tadcaller Taddington Tafford Bridge tag-rag tailor Talbot tale-bearer talifman tallow Tallow-dow tally-man Talmud Talyfarn Tammuz tamper Tamworth Tangier tankard

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TEN THI tantivy tenderness tapeftry thievilhness tenement tapelter Teneriff thimble taruntula Tenterden thinker target thirstiness tent wort tarnish Teraphim thiftle Thong-Caffle tart termagant tartane termination Tartar. terraqueous thornback Tartary terrestrial Thornbury tafteles terrible Thorncomh: tatterdemallion terrifie through tattoo Terring Thorp thoughtful taverner territory Taveflock terror: thousand tauntingly teffaceous thraldom tautalogical testament thrasher tautology tellifie threadbare threefold Taunton testimonial Taunton-bishop's telliness Threlkeld tawdry Tetbury thresher taxation Tetfworth throng teachable Tettershall throttle throwster. team Tentonic technology Tewksbury Thummim Thurlday tedious texture relescope Thames Thurston thankfulness thwart temperate tempeft theatre ticking templar theme temple tickle Theocracy theologian tick-tack St. Tiddy thereafter temporize tidings renable tightness thermometer tenacious Tilbury tenantable thermoscope tillage Therston Tenbury tilt-boat Tenby Theword tilt-yard thicken rendency

thicket

Thickham

tender-hearted

tenderly

timbrel

timorous

TOW timoroufness tov-man transverse traftable trafh tinker Tinmouth tractate Travegarn tradefman traveller sinfe! trade-wind treacherous tirewoman tradition Titchwoman treachery titillation. traduce treasonable tit-moufe trage comedy Tiverton trage-comical Tregaron 20bacco tragical Treleigh train-bands Tocester tremble Tockingtontrain, oil trepanner trepidation traiterous together roilfome tranquillity trepidity milfomenefs. tranfaction Treshevimick transcend Trevilan Toledo tolerable transcribe tribulation transcript toleration tribunal Toll-booth transfer trickish transfiguration tongue ty'd triennial transfigure triflingly tooth-ach Trigney roothfome transgress topaz \$rigonometry Topcliff transgreffor Trinitarians transient Trinity toper Tophet transition Tripoly transitoriness troublefome topography translation Tubal Topsham transmigration topfy-turvy Tuddington tranimography Tudworth torment transmutable Tuilleries torrent Torrington transparent Tukesbury torture trasspiration tulip transpire. St. Toffel traniplant tumourous Tunbridge Totness transport turnpike touch flone transporter toughly transpose turnpike-gate transpoler Tweed tournament transposition typographical toward township. transubstantiation typographically

V LA typographer vall verdore typography Vatican verger Vavafor vertification tyrannical tyrannically Vaudois verinice tyrannicalness vanlter vermicular tyrannicide vauct vermiculation tyrannize neol vermillion vegetable vermin tyrant vehemence vernacular tyranny vehicle vernal tyro V and II vellum verle Vacuum velocity verficle velvet verfification vade mecum vagabond venal verlifie venerable vertex vagary vagrant veneration vertiginous vain-glorious venereal vertigo vain-glorioufness venery vervain valedictory Venetian verv veficle vengeance valetudinary veficatory valiant Venice veloers validity venom valorous venomous veffes valnable ventilation vambrance venturefomenes Vefta. Vandal venturous Vestal Venus veltible vane velliger van-guard veracity vanish verb veftment vanity veftry vanquish verbatim veftry-main vaporation veffure verberate vapour verberation vetches vapouring verbofe

variable verbolenels verbolity vexation variance verdant vexatious variation variety verdigreafe ugly ugliness variet verderer vaffal verditer

VIN	VIS	UNA
viands	vine	visibleness
viaticum	vinevard	vifible
vibrate	vinegar	Visier
vibrating	vinew	vision
vibration	vient	visionist
vicar	vinous	vifit
vicarage	vintage	vifitation
vicarship	vintner	vifney
vice	vintress	vifual
vicious	vintry	vital
vice-admiral	violable	vitalness
vice-chancellor	· violate.	vitiate
vice-gerent		vitious
vice roy	violence	vitioulness
vice royalty	violent	vitreal de la
vicinity	violentadis	vitreous had
vicinage	violin	vitrific
viciffitude	violencello	vivace-
victim	viper Sanisland	vivacious
victor	virgo ve	vivacity
victorioufly	virgin	
victory	virginals	
victualler	Virginia	vivification
victuals	virginity	vivify
Vienna	virid	viviparous
view	virile	vixen
vigil	virility	vizard
vigilant	virtual	
vigorous		ulceration
vigour	virtuoufly	
vileness-	virulency	ullage satbird
vilitie		ulnage Produce
		ulterior delle
villager		ultimate.
villainous		Ulverston
villainoufly		umber
villainy ***	viscount	umbrage
		umbrella - Ilanana
vincible	VII cous	umpire a la dans
vindication	vilcouiness	unacceptable
vindictive	vilibility	unaccountable

II N C unaccustomed unacquainted unactive unadvifed pnaffeded nnaided pnalterable unanimity pnaafwerable unarmed unarrayed unaffifted upattentive. unattainable nnavoidable nnawaked unawares unbecoming unbegotten unbelief unbeliever unhend unbidden unblamable moblind unbloody unboiled unbooted unbound unbowel unbridled unbuilt unbutton uncapable uncertain unchangeable uncharitable unchafte unchriftened unchurched

uncircumfpect

uncigil unclaso unclean unclothe uncomfortable uncomely uncommon unconcerned unconceivable uncondemned uncomfortable unconquerable unconquer'd unconscionable proconfrant unconstrained pacontestible uncontrolable uncorrected uncover uncourteous uncrowned unction uncultivated uncustomed undannted nndecided undefiled underling undermine understand undertak e undervalue undervalument under-written undeferved undetermined undisciplined undistinguishable undivided undoubted

UNH undrefo undaly undutiful nneafy uneloquent unemployed unequal pnerring uneven unexecuted unexpected unexpert unexpressible unfairly untaithful unfashioned unfasten unfeigned nnfenced unfinished unfitted unfold unformed unforeseen unfortified unfortunate unfound unfriendly unfruitful ungainful ungarnished ungenteel ungird ungodliness ungovernable ungracious ungrateful unguent unhabitable unhandfomely unhandy

IT N S II N M II N R unhappily comindful nnremoved unmolefted unhappy unrepaired unharhour unmovable unrefolved unharnefs'd unmould unrespectful unhealthful nnnatural unhealthy nnneceffary unrewarded unrighteous unhealthily unecdful unoccupied unheard unoppoled unfaddle unhook unfafe unhorfe unpaid unfaid unparallel'd unhusbanded unicorn unpardonable unfunctified unpeaceably unfatisfactory unitarian unpeople unfavory unperceivable uninft unperfect unkind unpleafing unsearchable unpolished unseparable unladed unpolled unferviceable unlamented unpremeditated unfettled unprejudiced unshaded unlearn unshaken unprepared unlearned unshaven unleavened unprofitable unshod unprofperous unlicenfed unskilful unluckiness unprovided imfnared unpruned nnfociable unpunished unloofe unfolid unlovely unquenched unfound unlucky unspeakable unquiet ucmanly unravel unfpent unmanliness *nready nnfpotted unn annerly unreasonable unstable unmarried uniehukable anflained. unmasked unreclaimed unsteady nnreformed unstirred unmeafurable unregarded unstop unmeetness unrelenting unstring anmerciful unremitted unfuccefsful

An English Spelling Dictionary.

II N W URG unfuitable unwilling prinal nnwind untaken unwife nrine untamed mworn untangle unworthy nfage untanned unwound unteachable BRUTOTTER nfance untenable unvoke 27 60 unthankful wocabularu pfeful unthinking vocal ufher unthoughtful **Elskmouth** Vogue unthriftily Woice nfinal mntil poid ufurp untilled woider ufurpation untimely voidness nforer rolacious untoward mfurv untractable unlatile menfile untried volition prible voluble nemalt untrimmed volume Utopian untrue untruth voluntary ntter untrustiness voluntier vulnerable wolnerary womit unvail voracions vulpine unverfed potary wilture nn-uniform. votive Shanja unufual voucher Uxbridge unufually vouchfafe prorious unutterably WOW uxurioufly uxuriousness nnwary vovage nnwashen upbraid Unhilhagen nowalted apright Waggones uproar Wainfleet unwearied uplide wainfcot unweariedness unffart nowedded waiter waiward nawelcome Upton

unwholfome apward Wakefield unwhollomene unbanity wakeful unwieldinefs

WAS Walfleet way-wood 3112 1 Walgrove walte WE waffully weak walffulnefs weaken

Wallaffe wallet 1c W Walloons watch wallon watcher Watchet watchful

wallow watchfully walnut watchfulness Walfingham mater

Walton water-meafure wamble water-poife waterage wander wanton watergang

wantonness waterifh waterifhnefs Warbridge watery Watford warden

wardenship Wath Watling freet wardmote Watlington wardcobe

wattle warfare Wattleton Watton wariness

wave waver warm waveringly warmness Warnford WAVV wawl warrant

wax warrener Warrington waten Waxbam Warfop Warwick way

wash-bowl wayfaring Wayhill wafn waylay waspish waspishly waylayer

waspishness St. Waynard's wayward walle] way-wifer waffelers

weakly weakness weal meald

wealth wean weaning weapon

weaponlefs weapon-flave wear wearied wearily

weariness wearifome wearifomenel

weafand sue fol weather

weather-by weather board weather-cock weather-gage

weather glass weather-wife weave Weaver

web webster wed wedding wedge Wedley

wedlock Wedmore Wedgefday

An English Spelling Distionary.

398 WHE WHI Wendover weed wheaten weeder Wenlock Wheatly-Bridge Wheatly-North Weedom went Wentbridge week weekly wheedler wept wheel weel were Weremouth wheelage ween wheelbarrow were-wolf wecp wefand wheeler weeger weeping Wefel wheelwright West weevil wheeze Westbury weigh whelk Westchester weight whelm weightily westerliness whelp weightiness westerly whelpish weighty western whelve Welllow Welch when Westminster Welchrool whence whenfoever Weitmoreland welcome Weston where welcomeness weld Weston-Zaland whereas Westphalia welding-heat whereby welkin Westram wherefore westward wherein well well-a-day wether whereof well-born Wetherby wherefoever wetness whereto well-bred wet-shod -well-hole whereupon Wellinborough wetted wherewith Wellington Wherwell wey Wellow Weymouth wherret Wem whale subarf Wemworthy Wells and Palace wharfage wharfinger well-fet Whet-flone Whaley whey welt what wheyith welter Whateley which wemb Whatton Whitchurch wen wheal Whickner wench wencher Wheat

WHI whiffler white-meats why whig whiten whiggifhness whiteness wicked

whiggifm White Parish wickedly while wickedness whiles whitherfoever wicker whiting wicker While whitith whim Whitland

Wickliff Wickliffians whimfical whitlow Wickomb whimfically Whitminster Wickware whimficalness Whitstable widdle-waddle

whimfy whit fer wide whim-wham Whitfunday widely whindle Whitfuntide widen: whine whittle wideness

whip Whittlefeu widein whipper Whitton Widington whipfaw Whittingham widow whipfter Whitwell widower

whipflaff whiz widowhood whirl who widthwhirl-bone whole wield

whirligig wholly wieldness wbirl pool wholfom wieldy whirl wind wholfomly wife whish wholfomeness wig whick Wigan. whofoever whisker whoo

Wigborn whiskingly whoon wight whifper Wighton whore whifeerer Wigmore whoredom Wigton whoremonger whiftle whorish Wilcot

whorishly wild whorishness wild-creature Whitchurch wilderness whorlbat Whit-Down whortle

whit wilding whole white heart whofe-foever wildly white-liver'd wildne whur

LI 2

An Epplish Spelling Didiopary. 400 W I N WIT WON wile Winfred withholden Wilfred wing within wilful winged without wilfully withfav wilfulness winnow withstand wilily Winny withv williness Winflow witness wilv Winform wittal wilk Winter witwal Hive Winterborn Witney William winter-green Wivelscomb Willing winterly wizard willing Winterton & Ness wo willingly wipe wood willingness wile Woburn willow wire-draw Woden Wilmfton Wireham woe Wils-comb Wirkfworth woer Wiltshire wifacre woful Wisbich wofully wofulness Wimbleton wildom wimple wifely trold with Winard SVOIF wishfully Wincaupton wolf's-bane wisket Woller wince wifp Wollet winch Winchcomb wift Wolrich Wolfingham Winchelfey wit Winchester Withorn walvish witch woman witchchraft womaniflines wind-hound witch-elm womanly winder windfal with womb Windham withal Wombwell Witham windlass Witham-South wonder Witheridge wonderful windless wonderfully withdraw window wonderfulnefa Windfor & Caftle wither

Witheram

withhold

Windward

wine

wonderment

WOR WRE YAR worthinfully wrestler wood Woodbridge worshipper wretch wooden Worfon wretched woodenfy worft wretchedly Woodhall worfted Wrexham Woodland TION wriggle Woodley worth wright woodmonger Worthen wrimple woodpecker worthily wring woodroof worthiness wrinkle Woodflock worthless Winton woodines worthlefnele wrift woodward worthy wrifthand woody wot write woof Wotton writer wool wove writhe woollen would writhen woolly wound written woolstaple woundily Wrong Woolwich wound-wort wrongful wop-ey'd wrongfulness woundy wrongfully wrack word Wragby wrote work wrangle wroth worker wrangler Wrothamworkman wrought wrap workmanlike wrung wrapper workmanship WIY Worksop wrath wryly world wrathful wry necked worldly wrathfully Wulput Worm wrathfulnefa wyche wydraught worm-eaten wreak worm-feed Wreath Wye Wormshead wreck wyven wormwood wyver wren worn wrench WOLLA wrest wreftler worfe

wreftling

wreftle

worship

worthipful

Vap var

402 An English Spelling Dictionary.

YEO	YUL	20
yard-arm	yerk	yule-time
yard-land	yerker	Z
yare	yern	Zabulun
Yarmouth .	yes	Zacharias
yarn	yesterday	Zagay
Yarrish	yelternight	Zany
yarrow	yet	zeal
Yarum	yew	zealot
yalpin	yexing	zcalous
yate	yield -	zealoufly
yaw	yieldingness	zealouineis
yawl	yokc	Zechariah
yawn	yoke-fellow	zedoary
yaws	yoker	Zealand
Yaxley	yon	Zell
ye	yonder	Zelotes
yea	yonker	zenith
yean	yore	Zephyrus
year	York	Zereth
yearling	Yorkshire	zest
yearly	you	zeta
yeast	young	
yelk	younger	Zeugma Zink
yell	youngling	zodiac
yellow	youngiter	zone
yellowifh	your	
yellowishness	youthful	zoography
yelp	youthfully	zoology
yelt	youthfulness	zeotomy
ycoman	yule	zoophyte
yeomanry	yule-block	Zouch
Yeavil	yule-block	

A TABLE of the most familiar Proper Names of

M	EN and WOM	E.N.
. A	Giles	Nathaniel
Abel	Gilbert	Nehemiah
Abraham	Gregory	Nicholas
Alexander	H	O
Ambrofe	Henry	Oliver
Andrew	Horatio	P
Anthony	Hugh	Patrick
Arnold	Humphrey	Philip
Arthur	Tumpincy	Peter
Austin	Jacob	R
Augustus	Tames	Ralph
В	John	Raphael
Barnaby	Jeffery	Raymond
Bartholomew	Jeremy	Reynold
Benjamin	Jonathan	Richard
Bernard	Joseph	Robert
C	Johas	Roger
Cæfar	Joshua	Roland
Charles	Ifaac	S
Christopher	Jude	Samuel
Clement	Julian	Samfon
Constantine	L	Sebastian
D	Lambert	Sigifmond
Daniel	Lancelot	Silvefter
David	Laurence	Simeon
Dennis	Leonard	Simon
Dunitan	Leopold	Solomon
E	Lewis	T
Edmund	Luke	Theodore
Edward	M	Theodolius
Elcazar	Malachy	Theophilus
Elias	Mark	Thomas
F	Martin 4	Timothy
Ferdinand	Matthias	Toby
Francis	Matthew	V
Frederick	Maurice	Valentine
G	Michael	Vincent
Gabriel	Mofes	Urban
George	N	Z
Gervas	Nathan	Zachary

NAMES OF WOMEN

	IN WINI E 2 OF AA	OMEN.
. A	E	Margaret
Abigail	Eleanor	Margery
Alice	Elizabeth	Mary
Agnes	Efther	Martha
Amelia	F	Maud
Ann	Flora	P
Arabella	Frances	Penelope
В	G	Phyllis
Barbara	Gertrude	Prifcilla
Beatrice	* Grace	Prudence
Betty	H	R
Bridget	Hellen	Rachel
C	Henrietta	Retecca
Caroline	I I	Rofamond
Catherine	Jane	Rofe
Cecily	Joan	S
Charlot	Ifabel	Sarah
Christian	Judith	Sophiah
Constance	L	Sufanna
D	Laura	- T
Damaris	Louifa	Therefa
Deborah	Lucy	U
Diana	Lucretia	Urfula
Dinah	M	
Dorothy	Magdalen	









