

NECESSARY TABLES IN ARITHMETIC.

NUMERATION

Shows us to read or write numbers by figures, according to their value.

TEN TABLE.

1	10	100	1000
2	20	200	2000
3	30	300	3000
4	40	400	4000
5	50	500	5000
6	60	600	6000
7	70	700	7000
8	80	800	8000
9	90	900	9000

Pence Tables.

1	12	120	1200
2	24	240	2400
3	36	360	3600
4	48	480	4800
5	60	600	6000
6	72	720	7200
7	84	840	8400
8	96	960	9600
9	108	1080	10800
10	120	1200	12000
11	132	1320	13200
12	144	1440	14400

Cloth Measure.

4 Nails make 1 Quarter. 5 Quarters make 1 Ell English.
4 Quarters 1 Yard. 8 Quarters 1 Ell French.
3 Quarters 1 Ell Flemish.

Wine Measure.

8 Gills make 1 Quart. 63 Gallons make 1 Hogshead.
4 Quarts 1 Gallon. 4 Hogsheads 1 Tun.

Troy Weight.

24 Grains make 1 Pennyweight. 18 Ounces make 1 Pound.
20 Pennyweights 1 Ounce.

NOTE. Jewels, Gold, Silver and Liquors are weighed by this weight.

Avoirdupois Weight.

16 Drains make 1 Ounce. 4 Quarters make 1 Hundred.
16 Ounces 1 Pound. 20 Hundreds 1 Ton.
28 Pounds 1 Quarter.

NOTE. All Groceries, articles of provision, things of a coarse and grossy nature, and all metals, except gold and silver, are weighed by this weight.

Long Measure.

3 Barley-corns make 1 Inch. 220 Yards make 1 Furlong.
12 Inches 1 Foot. 8 Furlongs 1 Mile.
3 Feet 1 Yard. 60 Miles 1 Degree.

NOTE. This measure is used in determining the distances of places and the like, where length only is considered.

Time.

60 Seconds make 1 Minute. 24 Hours make 1 Day.
60 Minutes 1 Hour. 365 Days 1 Year.

NOTE. The exact length of a solar year is found by computation to be 365 days, 5 hours, 48 min. and 47 sec.
Thirty days hath September, February twenty eight alone,
April, June, and November; And all the rest have thirty one.

NOTE. February has 29 days every leap year.

Apothecaries' Weight.

20 Grains make 1 Scruple. 8 Drains make 1 Ounce.
3 Scruples 1 Dram. 12 Ounces 1 Pound.

NOTE. Apothecaries compound their medicines by this rule, but buy and sell their commodities by Avoirdupois wt.

Land Measure.

9 Square Feet make 1 Yard. 40 Poles make 1 Rood.
30 1-4 Yards 1 Pole. 4 Roods 1 Acre.

Cubic or Solid Measure.

1728 Cubic Inches make 1 Foot.
27 Feet 1 Yard.
40 Feet of round timber, or 50 of hewn timber, 1 Ton.
128 Solid Feet, that is, 8 feet in length, 4 in breadth, and 4 in height, 1 Cord of Wood.

Motion.

60 Seconds make 1 Minute.
60 Minutes 1 Degree.
30 Degrees 1 Sign.
12 Signs, or 360 Degrees, make the whole Great Circle of the Zodiac.

OF ADDITION.

SIMPLE ADDITION is the adding of several numbers together, whose signification is the same; as, 5 yards and 7 yards make 12 yards.

COMPOUND ADDITION is the adding of several numbers, having divers denominations.

OF SUBTRACTION.

SIMPLE SUBTRACTION is the finding of a difference between two numbers, whose signification is the same; as the difference between 7 yards and 4 yards is 3 yards.

COMPOUND SUBTRACTION teaches to find the difference between any sums of divers denominations.

MULTIPLICATION

Is a short way of performing several additions, and consists of two parts. 1. The Multiplicand, or sum to be multiplied. 2. The Multiplier, or sum multiplied by. 3. The Product, or answer to the question.

MULTIPLICATION TABLE.

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

DIVISION

Shows how often one number is contained in another, and what remains. It consists of four parts, viz. 1. The Dividend, or sum to be divided. 2. The Divisor, or sum divided by. 3. The Quotient, or answer to the question. 4. The Remainder, which is always less than the divisor, and of the same name with the dividend.

TABLES IN COMPOUND ARITHMETIC.

Table of Federal Money.

10 Mills make 1 Cent. 10 Cents make 1 Dollar.
10 Dimes make 1 Dollar. 10 Dollars make 1 Eagle.

NOTE. Federal money is usually reckoned in dollars, cents and mills; 10 mills make 1 cent, and 100 cents 1 dollar.

English Money.

4 Farthings make 1 Penny. 20 Shillings make 1 Pound.
12 Pence 1 Shilling.