
**The Tutor'S Assistant, Or Comic Figures of Arithmetic, by
Alfred Crowquill**

Forrester Alfred Henry

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Author: Forrester Alfred Henry

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Mr. Socher and his Family.

THE TUTOR'S ASSISTANT, OR
COMIC FIGURES
OF
ARITHMETIC;

SLIGHTLY ALTERED AND ELUCIDATED FROM



Walking-game,

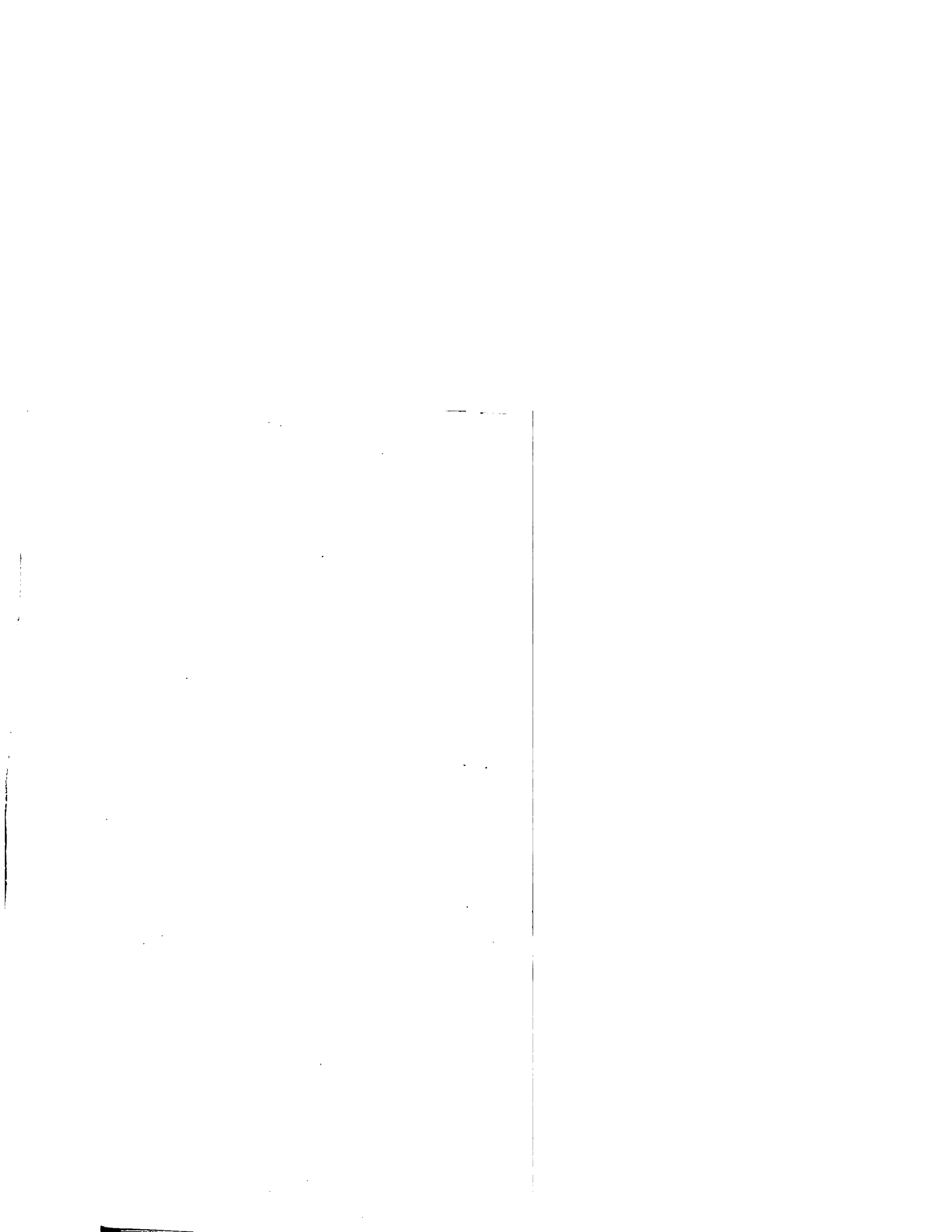
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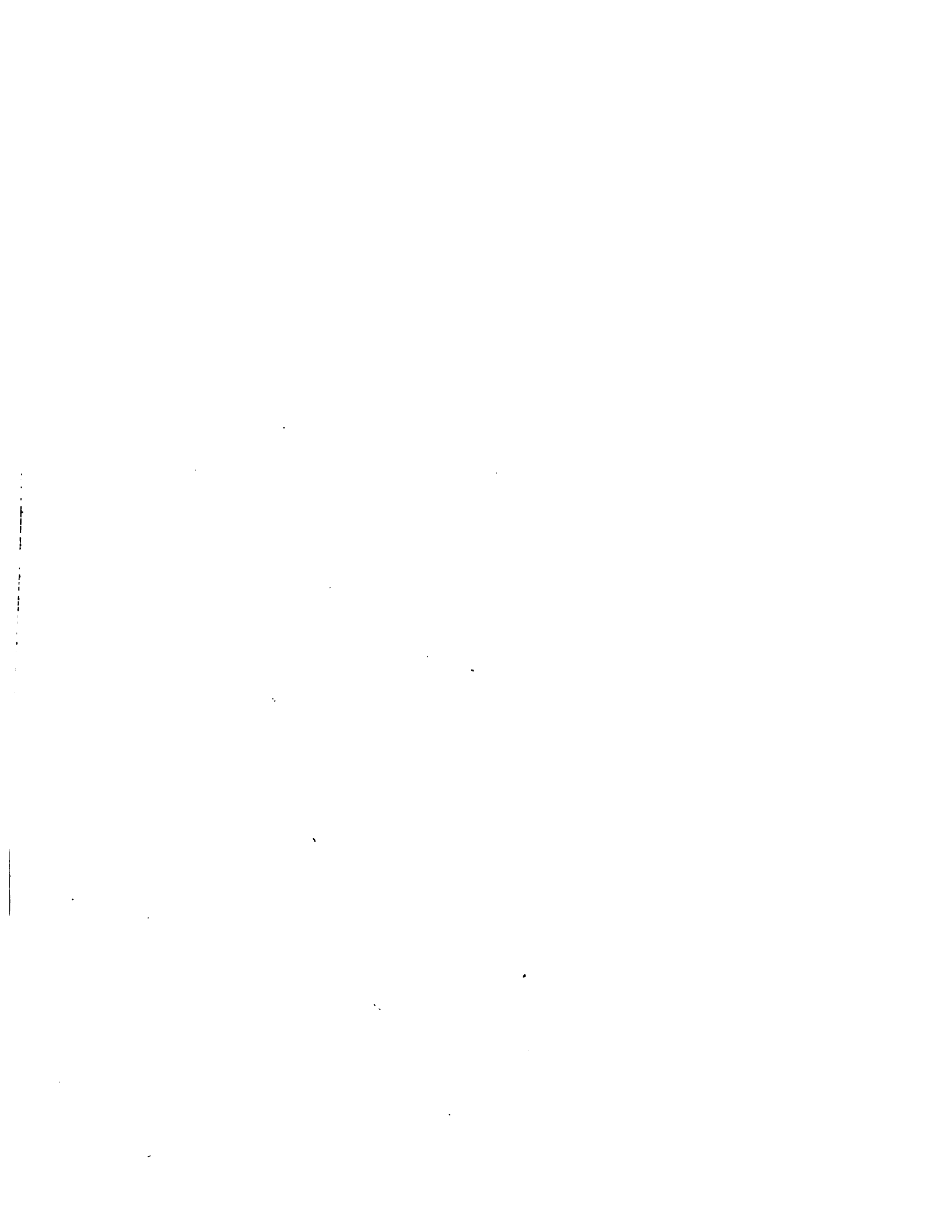
ALFRED CROWQUILL.

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M D C C C X L I I I.







LIKE THE DONKEY BETWEEN TWO BUNDLES OF HAY.

the present 'Comic Arithmetic' is offered for the edification of the public, both great and small; and it is hoped, that the trifling **S**ubtraction of **M**oney taken in **E**xchange will be found, upon examination, to be laid out at **C**ompound Interest.

The Author, albeit a man of no **P**RINCIPAL, is yet **H**ONEST withal, and would not permit the **P**ractice of



A BAD PRACTICE.

any guile or deception whereby his works hereafter may vend only at a **Discount**, and his purse prove that he had been working a sum in **Reduction** in lieu of sterling **Multiplication of Money**.

That the novel *figures* he has introduced will enable the student more readily to turn the **TABLES** to *account*, accelerate his *progression*, and spare the tutor (and himself) the pain of "measuring by the rod," is the **sum** total of the Artist's hopes.

A. C.



MEASURING BY THE ROD.

ARITHMETICAL TABLES.

NUMERATION.

Units.....	1	2	3	4	5	6	7	8	9
Tens.....	10	20	30	40	50	60	70	80	90
Hundreds.....	100	200	300	400	500	600	700	800	900
Thousands.....	1000	2000	3000	4000	5000	6000	7000	8000	9000
X. Thousands.....	10000	20000	30000	40000	50000	60000	70000	80000	90000
C. Thousands.....	100000	200000	300000	400000	500000	600000	700000	800000	900000
Millions.....	1000000	2000000	3000000	4000000	5000000	6000000	7000000	8000000	9000000
X. Millions.....	10000000	20000000	30000000	40000000	50000000	60000000	70000000	80000000	90000000
C. Millions.....	100000000	200000000	300000000	400000000	500000000	600000000	700000000	800000000	900000000

MULTIPLICATION.

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

MONEY.

Farthings.		Pence.	
qr.	d.	d.	s. d.
1	is	4	is 1 0
2	.....	8	..... 0 0
3	.....	12	..... 0 0
4	..... 1	16	..... 0 0
6	..... 1½	24	..... 0 0
8	..... 2	32	..... 0 0
10	..... 2½	40	..... 0 0
12	..... 3	48	..... 0 0
14	..... 3½	56	..... 0 0
16	..... 4	64	..... 0 0

PRACTICE TABLES.

Pence.		Shillings.		Of a Pound.	Of a Shilling.	Of a Cwt.
d.	s. d.	s.	£. s.	s. d.	6d. is ..	qr. lb.
20	is 1 8	20	is 1 0	10 0	is 4	2 or 56 is ½
30	.. 2 6	30	.. 1 10	6 8	.. 3	1 .. 28 .. ½
40	.. 3 4	40	.. 2 0	5 0	.. 2	0 .. 16 .. ½
50	.. 4 2	50	.. 2 10	4 0	.. 1½	0 .. 14 .. ½
60	.. 5 0	60	.. 3 0	3 4	.. 1	0 .. 8 .. ½
70	.. 5 10	70	.. 3 10	2 6	.. ¾	0 .. 7 .. ½
80	.. 6 8	80	.. 4 0	2 0	.. ½	
90	.. 7 6	90	.. 4 10	1 8		
100	.. 8 4	100	.. 5 0	1 0		
110	.. 9 2	110	.. 5 10	0 10		
120	.. 10 0	120	.. 6 0	0 8		
130	.. 10 10	130	.. 6 10	0 7½		
140	.. 11 8	140	.. 7 0	0 6		
144	.. 12 0	200	.. 10 0	0 3		

Of a Ton.	Of a Quarter.
10 cwt. is ½	lb.
5	14
4	7
2½	4
2	3½

TABLES OF WEIGHTS AND MEASURES.

TROY WEIGHT.

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

AVOIRDUPOIS WEIGHT.

16 Drams make 1 Ounce.
 16 Ounces . . . 1 Pound.
 28 Pounds . . . 1 Quarter.
 4 Quarters . . . 1 Hundred wt.
 20 Hundred wt. 1 Ton.

APOTHECARIES' WEIGHT.

20 Grains make 1 Scruple.
 3 Scruples . . . 1 Drachm.
 8 Drachms . . . 1 Ounce.
 12 Ounces . . . 1 Pound.

WOOL WEIGHT.

7 Pounds make 1 Clove.
 2 Cloves . . . 1 Stone.
 2 Stones . . . 1 Tod.
 6½ Tods . . . 1 Wey.
 2 Weys . . . 1 Sack.
 12 Sacks . . . 1 Last.

WINE MEASURE.

4 Quarts make 1 Gallon.
 18 Gallons . . . 1 Runlet.
 42 Gallons . . . 1 Tierce.
 63 Gallons . . . 1 Hogshead.
 84 Gallons . . . 1 Puncheon.
 126 Gallons . . . 1 Pipe.
 252 Gallons . . . 1 Tun.

ALE AND BEER MEASURE.

4 Quarts make 1 Gallon.
 9 Gallons . . . 1 Firkin.
 2 Firkins . . . 1 Kilderkin.
 2 Kilderkins . . . 1 Barrel.
 1½ Barrel . . . 1 Hogshead.
 2 Barrels . . . 1 Puncheon.
 3 Barrels . . . 1 Butt.

COALS.

3 Bushels make 1 Sack.
 36 Bushels . . . 1 Chaldron.

HAY.

36 Pounds . . . 1 Truss of Straw.
 56 Pounds . . . 1 Truss old Hay.
 60 Pounds . . . 1 Truss new Hay.
 36 Trusses . . . 1 Load.

LONG MEASURE.

12 Inches make 1 Foot.
 3 Feet 1 Yard.
 5½ Yards 1 Pole.
 40 Poles 1 Furlong.
 8 Furlongs 1 Mile.

LAND MEASURE.

9 Feet make 1 Yard.
 30½ Yards 1 Pole.
 40 Poles 1 Rood.
 4 Roods 1 Acre.

CLOTH MEASURE.

2½ Inches make 1 Nail.
 4 Nails 1 Quarter.
 3 Quarters 1 Flemish Ell.
 4 Quarters 1 Yard.
 5 Quarters 1 English Ell.
 6 Quarters 1 French Ell.

TIME.

60 Seconds make 1 Minute.
 60 Minutes 1 Hour.
 24 Hours 1 Day.
 7 Days 1 Week.
 4 Weeks 1 Month.
 365 Days, 6 Hours 1 Year.

DRY MEASURE.

2 Quarts make 1 Pottle.
 2 Pottles 1 Gallon.
 2 Gallons 1 Peck.
 4 Pecks 1 Bushel.
 2 Bushels 1 Strike.
 8 Bushels 1 Quarter.
 5 Quarters 1 Wey.
 2 Weys 1 Last.

SOLID MEASURE.

1728 Inches 1 Solid Foot.
 27 Feet 1 Yard or Load.

DEFINITIONS.

Arithmetic—is the art or science of computing by numbers; viz. an *Art*, because it determines the method of solving questions; a *Science*, as it estimates the nature and quality of numbers.

A *Whole Number* or *Integer*—consists of an exact number of units, as 1, 5, &c.

A *Fractional Number*—whether vulgar or decimal, is part of an unit, as $\frac{1}{2}$, $\frac{1}{4}$, &c.

A *Mixed Number*—is a whole number and a fraction joined to it, as $4\frac{1}{2}$, $5\frac{3}{4}$, &c.

A *Prime Number*—is that which cannot be divided by any other number, except a 1, without leaving a remainder

A *Square Number*—is the product of a number multiplied once by itself, as 16 is 4 times 4.

A *Cube Number*—is the product of a number multiplied twice by itself, as 3 times 3 is 9, and 3 times 9 is 27.

A *Composite Number*—is the product of any two whole numbers, as 20 is produced by multiplying 4 by 5.

Component Parts—are those of which any number consists, as $4\frac{1}{2}$ is composed or consists of the whole number 4, and the fraction $\frac{1}{2}$; these are its component parts.