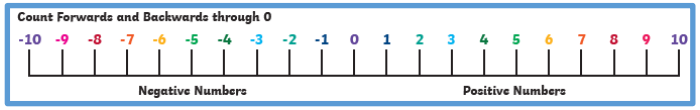
Number and Place Value

- Know place value of each digit in numbers to 1,000,000
- Count forwards and backwards in powers of 10
- Read Roman numerals to 1000

Roman Numerals to 1000

I = ONE
V = five
X = ten
L = fifty
C = hundred
D = five hundred
M = thousand



Number – Multiplication and Division

- All factor pairs of a number
- Common factors of 2 numbers
- Prime numbers to 19
- Square numbers (²)
- Cube numbers(³)

Factors and Multiples

A multiple is a number that can be divided evenly by a given number.

For example, 12 × 1 = **12**, 12 × 2 = **24**, 12 × 3 = **36**

The multiples of 12 include: 12, 24, 36, 48...

A factor is a number that is multiplied by another number to get a product.

For example, 12 ÷ **1** = **12**, 12 ÷ **2** = **6**, 12 ÷ **3** = **4**

The factors of 12 are: 1, 2, 3, 4, 6 and 12.

Square and Cube Numbers

1^2 1×1=1	1^3 1×1×1=1
2^2 2×2=4	2^3 2×2×2=8
3^2 3×3=9	3^3 3×3×3=27
4^2 4×4=16	4^3 4×4×4=64
5^2 5×5=25	5^3 5×5×5=125
6^2 6×6=36	6^3 6×6×6=216
7^2 7×7=49	7^3 7×7×7=343
8^2 8×8=64	8^3 8×8×8=512
9^2 9×9=81	9^3 9×9×9=729
10^2 10×10=100	10^3 10×10×10=1000
11^2 11×11=121	11^3 11×11×11=1331
12^2 12×12=144	12^3 12×12×12=1728

Prime Numbers

A natural number greater than 1 with no divisors other than 1 and itself.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	9	95	96	97	98	99	100

Measurement

- Conversion between metric and imperial:
  cms to inches
  kilograms to pounds
  litres to pints
- Area of a rectangle = length x height in cm^2 and m^2

Length

1 kilometre = 1000 metres
1 metre = 100 centimetres
1 centimetre = 10 millimetres

km m cm mm

1 kilometre = 0.62 miles
1 metre = 1.09 yards
1 metre = 3.28 feet

km m yd ft

1 centimetre = 0.39 inches
1 foot = 12 inches
1 yard = 3 feet

cm in ft yd

Capacity

1 litre = 1000 millilitres
1 centilitre = 10 millilitres

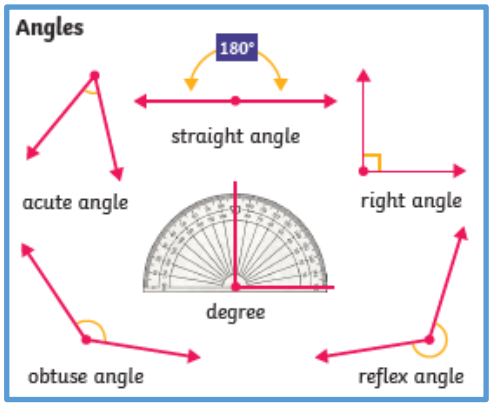
l cl ml

1 litre = 35.19 fluid ounces
1 litre = 1.75 pints
1 litre = 0.21 gallons
1 gallon = 8 pints

l fl oz pt gal

Geometry

- Identify acute, obtuse and reflex angles
- Angle at a point and whole turn = 360°
- Angle at a point on a straight line and half turn =180°



Fractions

- Identify proper and improper fractions
- Recognise %
- Know percentage and decimal equivalents of ½, ¼, 1/5, 2/5, 4/5

Mixed Numbers

Mixed numbers contain a whole number and a fraction.

$2\frac{1}{4}$

$2\frac{1}{4}$ is a mixed number.

The whole number is 2.

The fraction is $\frac{1}{4}$.

Improper Fractions

An improper fraction is a fraction where the numerator is greater than or equal to the denominator.

$\frac{5}{3}$ ← numerator, denominator