Place value

Millions			Thousands			Ones		
Hundred million	Ten million	One million	Hundred thousand	Ten thousand	One thousand	Hundreds	Tens	Ones
1	2	3,	4	5	6,	7	8	9

order	compare	value

Roman numerals

1	I	100	C
5	V	500	D
10	X	1000	M
50	L		

Perimeter

The total distance around a shape.

P = 2L+2W or P = 2(L+W)

Area

The number of square units inside a shape.

A = L x W

*L = length, W = width

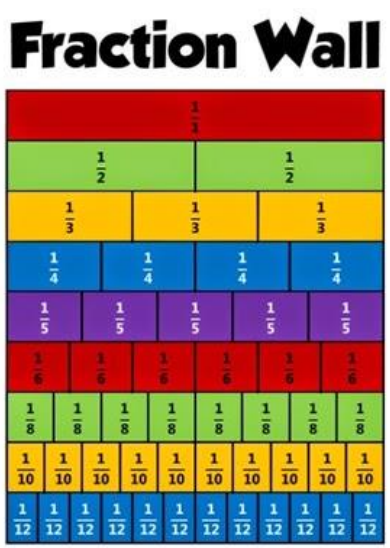
Volume

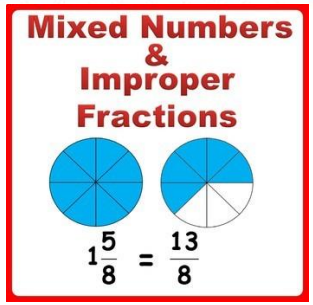
Length x width x height

Multiplication and division vocabulary

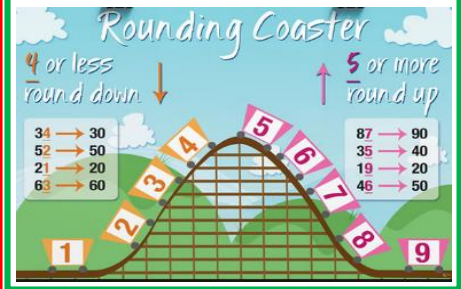
Term	Definition	Example
factor	a number that divides exactly into another number	factors of 12 = 1, 2, 3, 4, 6, 12
common factor	factors of two numbers that are the same	common factors of 8 and 12 = 1, 2, 4
prime number	a number with only 2 factors: 1 and itself	2, 3, 5, 7, 11, 13, 17, 19…
composite number	a number with more than two factors	12 (it has 6 factors)
prime factor	a factor that is prime	prime factors of 12 = 2, 3
multiple	a number in another number's times table	multiples of 9 = 9, 18, 27, 36…
common multiple	multiples of two numbers that are the same	common multiples of 4 and 6 = 12, 24…
square numbers	the result when a number has been multiplied by itself	25 (5^2 = 5x5) 49 (7^2 = 7x7)
cube numbers	the result when a number has been multiplied by itself 3 times	8 (2^3 = 2x2x2) 27 (3^3 = 3x3x3)

Fractions





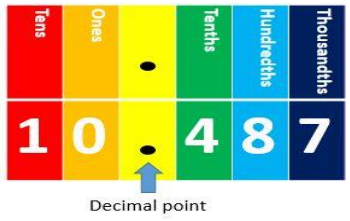
Rounding



Fractions, decimals and percentages

1/100	0.01	1%
1/20	0.05	5%
1/10	0.1	10%
1/5	0.2	20%
¼	0.25	25%
½	0.5	50%
¾	0.75	75%
1	1	100%

Place Value Chart for 10.4879



YEAR 5 MATHS KNOWLEDGE ORGANISER

Measurement conversions

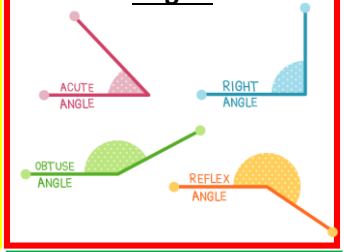
1 **cent**imetre	10mm
1 metre	100cm
1 **kilo**metre	1,000 m
1 mile	1.6 km
1 kilometre	0.625 (5/8) mile
1 **kilo**gram	1,000 grams
1 litre	1,000 **milli**litres
1 inch	2.54cm
1kg	2.2lbs
1 pint	473ml

Units of time

Converting Units of Time

60 seconds = 1 minute
60 minutes = 1 hour
24 hours = 1 day
7 days = 1 week
12 months = 1 year
52 weeks = 1 year
365 days = 1 year
10 years = 1 decade
100 years = 1 century
1000 years = 1 millennium

Angles



Angles

full turn	360°
half turn	180°
right angle	90°
acute angle	< 90°
obtuse angle	> 90°
reflex angle	>180°
angles on a straight line	180°
angles inside a triangle	180°
angles inside a quadrilateral	360°

Regular and irregular shapes

Name	Regular	Irregular
Triangle		
Quadrilateral		
Pentagon		
Hexagon		
Octagon		

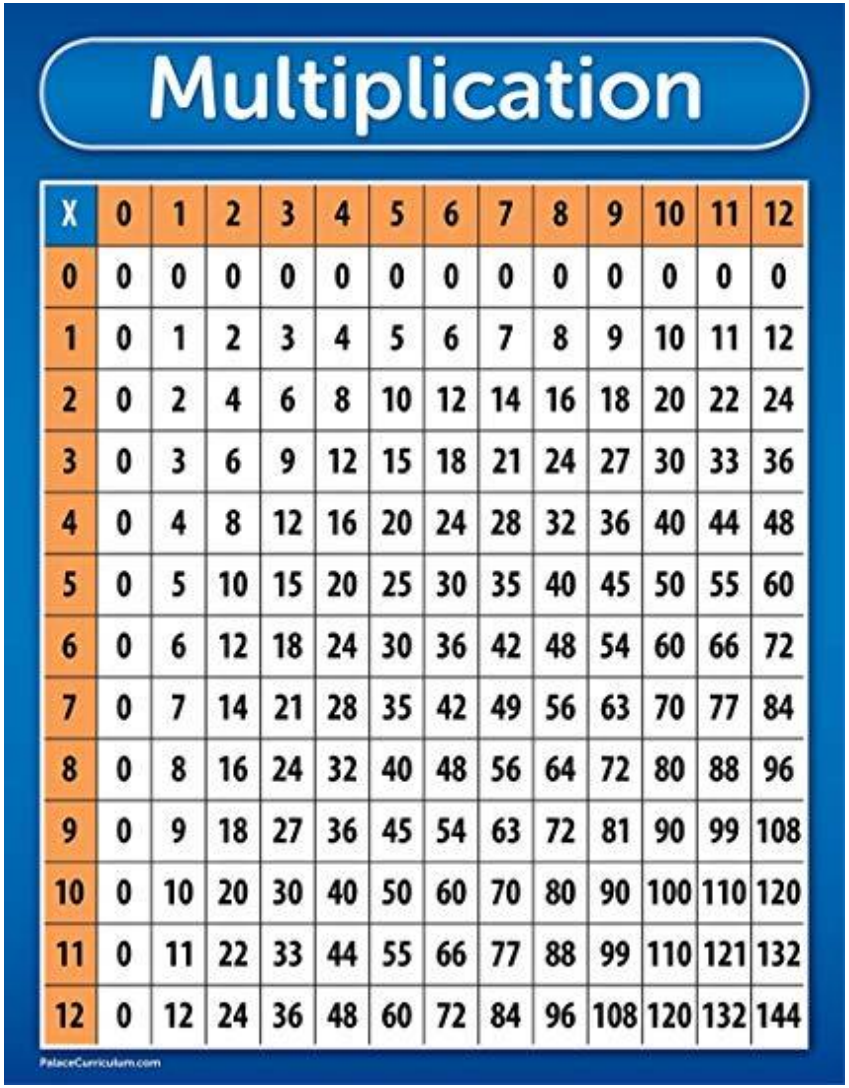
Date	Focus	signature

You can learn your times tables from other times tables facts.

For example, if you know 3 x 9 = 27 then you also know 9 x 3 = 27

So if you've learned all times tables except the nines, you will already know each answer except 9 x 9

Practise the times tables below and you'll know them all in no time.



X	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144