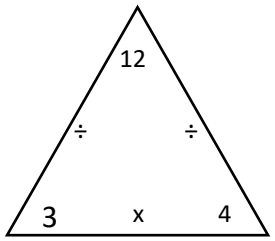
Year 3 Maths Knowledge Organiser

Number Bonds To 100

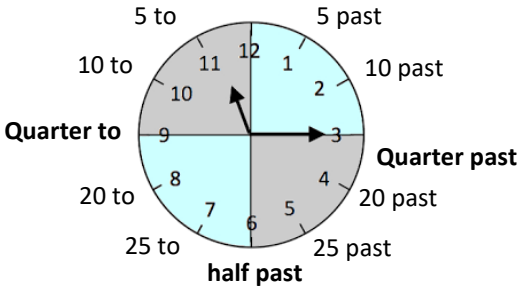
0	100		20	80		35	65
5	95		25	75		40	60
10	90		30	70		45	55
15	85					50	50

Multiplication and Division – Derived Facts



3 x 4 = 12
4 x 3 = 12
12 = 3 x 4
12 = 4 x 3
12 ÷ 3 = 4
12 ÷ 4 = 3
4 = 12 ÷ 3
3 = 12 ÷ 4

Telling The Time



2.05	five past two
3.10	ten past three
19.20	twenty past seven
16.25	twenty-five past four
8.35	twenty-five to nine
21.40	twenty to ten
5.50	ten to six
12.55	five to one

Multiplication Tables

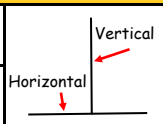
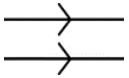
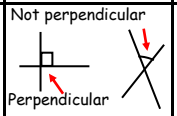
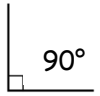
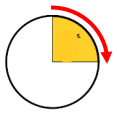
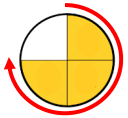
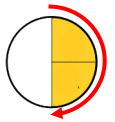
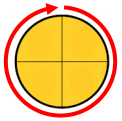
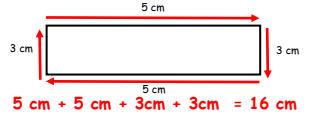
X	4	8	3	6	9
1	4	8	3	6	9
2	8	16	6	12	18
3	12	24	9	18	27
4	16	32	12	24	36
5	20	40	15	30	45
6	24	48	18	36	54
7	28	56	21	42	63
8	32	64	24	48	72
9	36	72	27	54	81
10	40	80	30	60	90
11	44	88	33	66	99
12	48	96	36	72	108

Days in a Month

January	31
February	28*
March	31
April	30
May	31
June	30
July	31
August	31
September	30
October	31
November	30
December	31

*Leap year is 366 days with 29 days in February

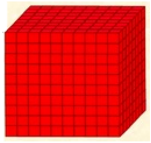
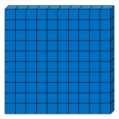
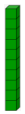
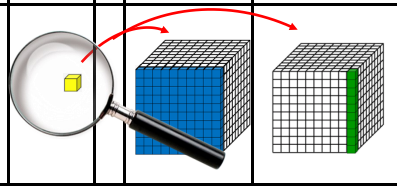
Geometry

Vertical Horizontal		Parallel	
Perpendicular		Right Angle	
Quarter Turn 1 right angle 90°		Three-quarter Turn 3 right angles 270°	
Half Turn 2 quarter turns 180°		Full Turn 4 quarter turns 360°	
Perimeter			

Measurements

mm in a cm	10 mm = 1 cm	**m in a km**	1000m = 1km
mm in a m	1000 mm = 1 m	**g in a kg**	1000g = 1 kg
cm in a m	100 cm = 1 m	**ml in a l**	1000 ml = 1 l
60 seconds in a minute.		60 minutes in an hour.	24 hours in one day.
7 days in a week.		12 months in one year.	

Place Value Grid

thousands	hundreds	tens	ones		tenths	hundredths
1000	100	10	1	•	0.1	0.01
						

2D Shapes

triangle	a three sided polygon
quadrilateral	a four sided polygon
pentagon	a five sided polygon
hexagon	a six sided polygon
heptagon	a seven sided polygon
octagon	an eight sided polygon
nonagon	a nine sided polygon
decagon	a ten sided polygon
hendecagon	an eleven sided polygon
dodecagon	a twelve sided polygon

Fractions

$\frac{1}{2}$	one half
$\frac{1}{3}$	one third
$\frac{2}{3}$	two thirds
$\frac{1}{4}$	one quarter
$\frac{3}{4}$	three quarters
$\frac{1}{5}$	one fifth
$\frac{1}{8}$	one sixth
$\frac{1}{7}$	one seventh
$\frac{1}{8}$	one eighth
$\frac{1}{9}$	one ninth
$\frac{1}{10}$	one tenth