

Year 4 Mathematics Knowledge Organiser

Fraction/ Decimal Equivalence					
$\frac{1}{8}$	0.125	$\frac{1}{10}$	0.1	$\frac{1}{100}$	0.01
$\frac{2}{8} = \frac{1}{4}$	0.25	$\frac{2}{10} = \frac{1}{5}$	0.2	$\frac{25}{100} = \frac{1}{4}$	0.25
$\frac{3}{8}$	0.375	$\frac{3}{10}$	0.3	$\frac{50}{100} = \frac{1}{2}$	0.5
$\frac{4}{8} = \frac{2}{4} = \frac{1}{2}$	0.5	$\frac{4}{10} = \frac{2}{5}$	0.4	$\frac{75}{100} = \frac{3}{4}$	0.75
$\frac{5}{8}$	0.625	$\frac{5}{10}$	0.5	$\frac{100}{100}$	1
$\frac{6}{8} = \frac{3}{4}$	0.75	$\frac{6}{10} = \frac{3}{5}$	0.6		
$\frac{7}{8}$	0.875	$\frac{7}{10}$	0.7		
$\frac{8}{8} = \frac{4}{4}$	1	$\frac{8}{10} = \frac{4}{5}$	0.8		
		$\frac{9}{10}$	0.9		
		$\frac{10}{10} = \frac{5}{5}$	1		

Coordinates	
Coordinate Grid	
Finding the coordinates of a point.	

Place Value Columns									
	ten thousands	thousands	hundreds	tens	ones	.	tenths	hundredths	thousandth
numeral	10,000	1000	100	10	1	.	0.1	0.01	0.001

Quadrilaterals			Triangles			Angles		
Rectangle	<ul style="list-style-type: none"> Four sides Opposite sides parallel Opposite sides equal length Four right angles 		Equilateral	All three sides and angles equal.		Acute Angle	1° to 89°	
Parallelogram	<ul style="list-style-type: none"> Four sides Opposite sides parallel Four equal sides Opposite sides parallel Opposite angles equal 		Isosceles	Two sides and angles equal.		Right Angle	90°	
Rhombus	<ul style="list-style-type: none"> Four equal sides Opposite sides parallel Opposite angles equal 		Scalene	All three sides and angles of different sizes.		Obtuse Angle	91° to 179°	
Kite	<ul style="list-style-type: none"> Four sides Pairs of adjacent sides equal Angles where adjacent sides meet are equal Diagonals intersect at right angles 		Right-angled	A triangle with a right angle. Can be isosceles or scalene.		Straight Angle	180°	
Trapezium	<ul style="list-style-type: none"> Four sides One pair of opposite sides are parallel 					Reflex Angle	181° to 359°	
Multiplication Tables								
x	7		6	12		11		
1	7		6	12		11		
2	14		12	24		22		
3	21		18	36		33		
4	28		24	48		44		
5	35		30	60		55		
6	42		36	72		66		
7	49		42	84		77		
8	56		48	96		88		
9	63		54	108		99		
10	70		60	120		110		
11	77		66	132		121		
12	84		72	144		132		

Geometry

Area of a shape	
	4cm 3cm 3cm 4cm The two dimensional space that a shape covers, measured in squared units. Area = 12 square cm

Roman Numerals

I	1	IX	9
II	2	X	10
III	3	XI	11
IV	4	XII	12
V	5	L	50
VI	6	C	100
VII	7	D	500
VIII	8	M	1000