



# Year 4 Maths Knowledge Organiser

Fraction Decimal Equivalence				
$1/10 = 0.1$	$4/10 = 0.4$	$7/10 = 0.7$	$10/10 = 1$	$\frac{3}{4} = 0.75$
$2/10 = 0.2$	$5/10 = 0.5$	$8/10 = 0.8$	$\frac{1}{2} = 0.5$	$1/100 = 0.01$
$3/10 = 0.3$	$6/10 = 0.6$	$9/10 = 0.9$	$\frac{1}{4} = 0.25$	$23/100 = 0.23$

### Coordinates

Coordinate Grid

"Go along the corridor and then up the stairs"

### Geometry

**Perimeter**

The distance around the outside of the shape.

**Area**

The amount of space taken up by a 2D shape. Measured in  $cm^2$ .

### Angles

Acute Angle	$1^\circ$ to $89^\circ$	
Right Angle	$90^\circ$	
Obtuse Angle	$91^\circ$ to $179^\circ$	
Straight line Angle	$180^\circ$	
Reflex Angle	$181^\circ$ to $359^\circ$	
Full Turn	$360^\circ$	

### 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

### Triangles

**Equilateral**  
All three sides and angles equal.

**Isosceles**  
Two sides and angles equal.

**Scalene**  
All three sides and angles of different sizes.

**Right-angled**  
A triangle with a right angle. Can be isosceles or scalene.

### Quadrilaterals

**Rectangle**  
Four sides  
Opposite sides parallel  
Opposite sides equal length  
Four right angles

**Parallelogram**  
Four sides  
Opposite sides parallel

**Rhombus**  
Four equal sides  
Opposite sides parallel  
Opposite angles equal

**Kite**  
Four sides  
Pairs of adjacent sides equal  
Angles where adjacent sides meet are equal  
Diagonals intersect at right angles

### Roman Numerals

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

### Place Value Grid

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