

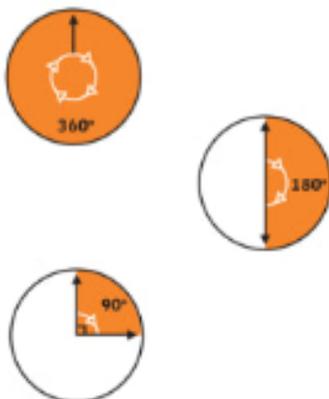
### Place value

Hundreds	Tens	Ones
7	8	9

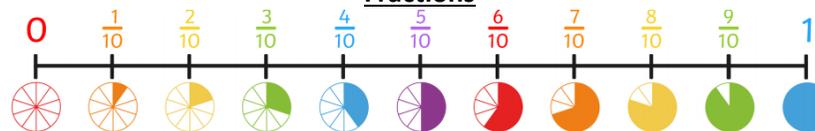
Partition	Compare
Order	Estimate

### Angles

full turn	360°
half turn	180°
right angle	90°
acute angle	< 90°
obtuse angle	> 90°



### Fractions



**3** Numerator  
How many parts do you have?

**4** Denominator  
How many parts is the whole divided into?

1/3, 2/5, 5/8

Equivalent fractions	1/2 and 2/4
Unit fraction	1/2 Numerator is 1
Non-unit fraction	3/4 Numerator is more than 1

### Position and direction

Full turn	4 right angle turns
Half turn	2 right angle turns
Quarter turn	1 right angle turn
Three-quarter turn	3 right angle turns
Clockwise	Anti-clockwise

## YEAR 3 MATHS KNOWLEDGE ORGANISER

### Measurement

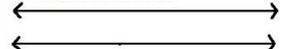
Length	m/cm/mm	1m=100cm	1cm=10mm
Mass	Kg/g	1kg=1000g	
Capacity	l/ml	1l=1000ml	

### Perimeter

The **perimeter** is the total distance around the outside of a 2D shape.

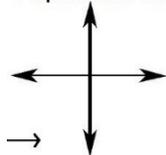
You calculate the perimeter of a 2D shape by adding together all the lengths of the shape.

### Parallel Lines



### Lines

#### Perpendicular Lines



**Vertical**

**Horizontal**

90°

### 3D shape

Orientation  
Properties

Square-based pyramid	Cuboid	Triangle-based pyramid	Cube	Triangle-based prism
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Edges	8	12	6	12	9
Faces (the flat sides)	5	6	4	6	5
Vertices (the point where the edges meet)	5	8	4	8	6

### Time



Seconds	Morning
Minutes	Afternoon
Hours	Noon
O'clock	Midnight
Nearest minute	

1 minute = 60 seconds
1 hour = 60 minutes
1 day = 24 hours
Days in a month
1 year = 12 months
1 year = 365 days

### Subtracting and adding fractions



To subtract fractions, keep the common denominator and subtract the numerators!

To add fractions, keep the common denominator and add the numerators!



$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$

