

Mathematical vocabulary

Let's look at some of the words you'll be using this term...

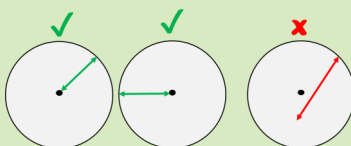
Key Words

Definition

Examples

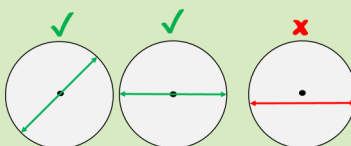
Radius

The distance from the **centre to the edge** of a circle.



Diameter

The distance from one point of a circle, through the centre, to another point. On the circle.



Circumference

The distance **around the edge** of a circle.



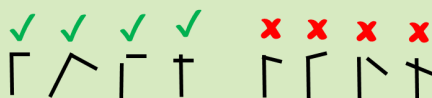
Parallel

Lines that point in the same direction and always remain the **same distance apart**.



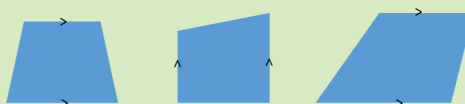
Perpendicular

Lines that are at **90°** to each other.



Trapezium

A four-sided shape with **one pair of parallel sides**.



Facts, formulae and procedures

Number Facts

Let's review some of the facts, formulae and procedures that you've learned in the past...

Factors of 24:

- 1
- 2
- 3
- 4
- 6
- 8
- 12
- 24

A method to find any percentage of an amount:

- **Divide by 100** (to find 1%)
- **Multiply by the percentage**

E.g. Find 7% of 500

Solution:

$$1\% = 500 \div 100 = 5$$

$$7\% = 5 \times 7 = 35$$

To convert a decimal to a percentage:

Multiply by 100

E.g. $0.13 \times 100 = 13$ so $0.13 = 13\%$

$0.7 \times 100 = 70$ so $0.7 = 70\%$

$0.125 \times 100 = 12.5$ so $0.125 = 12.5\%$

$1.02 \times 100 = 102$ so $1.02 = 102\%$

Some equivalent fraction, decimals and percentages:

$$\frac{1}{2} = 0.5 = 50\%$$

$$\frac{1}{4} = 0.25 = 25\%$$

$$\frac{3}{4} = 0.75 = 75\%$$

$$\frac{1}{100} = 0.01 = 1\%$$

To convert a percentage to a decimal:

Divide by 100

E.g. $13 \div 100 = 0.13$ so $13\% = 0.13$

$5 \div 100 = 0.05$ so $5\% = 0.05$