

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

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

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 $1.02 = 102\%$

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 $5\% = 0.05$

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

Number Facts

Factors of 24:

1

2

3

4

6

8

12

24

Some equivalent fraction, decimals and percentages:

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

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

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

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