

# Division



## Method

We would recommend **short division** which is also known as 'the bus stop method'.

**Short division** is a written method that uses mental arithmetic to divide a number in stages.

Example:

Using short division work out  $876 \div 4$  (the 4 is called the **divisor**).

To work out  $876 \div 4$ :

Step 1:

$$\begin{array}{r} 2 \\ 4 \overline{) 876} \\ \underline{8} \phantom{00} \\ 0 \phantom{00} \end{array}$$

$8 \div 4 = 2$

Step 2:

$$\begin{array}{r} 21 \\ 4 \overline{) 876} \\ \underline{8} \phantom{00} \\ 7 \phantom{00} \end{array}$$

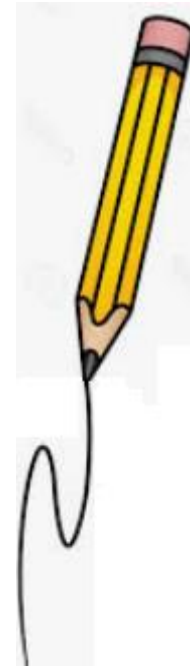
$7 \div 4 = 1 \text{ rem } 3$

Step 3:

$$\begin{array}{r} 219 \\ 4 \overline{) 876} \\ \underline{8} \phantom{00} \\ 7 \phantom{00} \\ \underline{4} \phantom{00} \\ 36 \phantom{00} \\ \underline{36} \phantom{00} \\ 0 \phantom{00} \end{array}$$

$36 \div 4 = 9$

So  $876 \div 4 = 219$



## A to Z

Other words that mean division:

Share

Share equally

Divide

Equal groups of

Group

Equal parts

Quotient



$$5 \quad 7 \quad \square \div \square \quad \square = 1 \quad 2$$

$$5 \quad \square \quad 8 \div 2 \quad 4 = \square \quad \square$$

Fill in the missing numbers.



Why did the girl wear glasses during her Maths class?

Because it improves di-vision

Top Tip

Always remember that the number you are dividing goes underneath the 'bus stop' and the number you are dividing by (the divisor) goes on the outside.

REAL LIFE



A teacher has 153 sweets.

The teacher **shares** the sweets equally among 9 students. How many sweets does each pupil receive?

Share means divide

They receive 17 sweets each.

$$\begin{array}{r} 17 \\ 9 \overline{) 153} \\ \underline{9} \phantom{00} \\ 63 \phantom{00} \\ \underline{63} \phantom{00} \\ 0 \phantom{00} \end{array}$$