



Changing fractions to decimals using division

To change a **fraction to a decimal** you can use **division**.

Think of a fraction like $\frac{1}{2}$ as meaning $1 \div 2$.

If you work out $1 \div 2$ it becomes a decimal.

$$1 \div 2 = 0.5$$

$$\text{so } \frac{1}{2} = 0.5$$

In the same way $\frac{3}{4}$ is $3 \div 4$, so $\frac{3}{4} = 3 \div 4 = 0.75$

And $\frac{1}{10}$ is $1 \div 10$, so $\frac{1}{10} = 1 \div 10 = 0.1$

These divisions can be worked out using a **calculator** if you like.

This method works for any fraction. Here are some more examples:

$$\frac{1}{4} = 1 \div 4 = 0.25$$

$$\frac{2}{5} = 2 \div 5 = 0.4$$

$$\frac{1}{20} = 1 \div 20 = 0.05$$

$$\frac{3}{50} = 3 \div 50 = 0.06$$

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