



Working with metric and decimal units

Being able to divide by 10, 100 and 1,000 is useful when you want to **convert between units**. Here are some rules and examples, starting with pounds and pence.

Divide by 100 to change pence into pounds.

Example:

$$225 \text{ p} = 225 \div 100 = \text{£}2.25$$

$$\text{£ } 1 = 100 \text{ p}$$

Divide by 1,000 to change grams into kilograms.

Example:

$$1,500 \text{ g} = 1,500 \div 1,000 = 1.500 \text{ kg} = 1.5 \text{ kg}$$

$$1 \text{ kg} = 1,000 \text{ g}$$

Divide by 1,000 to change millilitres into litres.

Example:

$$750 \text{ ml} = 750 \div 1,000 = 0.750 \text{ l} = 0.75 \text{ l}$$

$$1 \text{ litre} = 1,000 \text{ ml}$$

Divide by 1,000 to change metres into kilometres.

Example:

$$750 \text{ m} = 750 \div 1,000 = 0.750 \text{ km} = 0.75 \text{ km}$$

$$1 \text{ km} = 1,000 \text{ m}$$

Divide by 100 to change centimetres into metres.

Example:

$$902 \text{ cm} = 902 \div 100 = 9.02 \text{ m}$$

$$1 \text{ m} = 100 \text{ cm}$$

Divide by 10 to change millimetres into centimetres.

Example:

$$50 \text{ mm} = 50 \div 10 = 5 \text{ cm}$$

$$1 \text{ cm} = 10 \text{ mm}$$