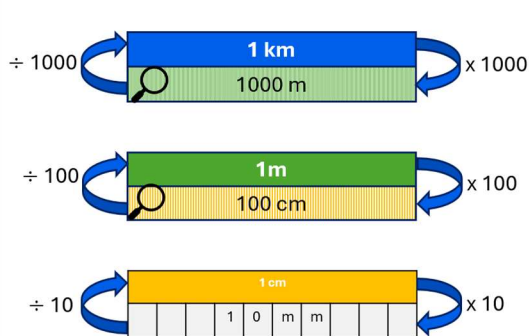


Converting Metric Units

Units are needed to measure things like length, weight, and capacity. Sometimes, you need to change from one unit to another to do calculations. It can be tricky to remember what to do, but if you know what each quantity represents you can use a common-sense approach to problem solving.



A journey is measured in km. A stride is 1 m. It would take you 1000 strides to walk 1 km.

Is there a metre ruler in your classroom? Hold it between with your hands and see how far you stretch. A metre ruler is divided into centimetres. A centimetre is the width of your fingertip. How many fingertips would it take to make the length of a metre ruler? 100.

A sharp pencil point is 1 mm. You could fit 10 sharp pencil points across the width of your fingertip.

THE MATHS HUB
ADVICE TUITION ASSESSMENT

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To convert between units of measurement:

1. Draw a conversion table.
2. Identify the unit you have.
3. Identify the unit you need.
4. What is the conversion factor?
5. Do the calculation.
6. State your final answer.

Kilometre (km)	$\times 1000$ \rightleftharpoons $\div 1000$	Metres (m)
		2500
8.01		
		200

Length

Metres (m)	$\times 100$ \rightleftharpoons $\div 100$	Centimetres (cm)
		1000
0.6		
		2
Centimetres (cm)	$\times 10$ \rightleftharpoons $\div 10$	Millimetres (mm)
		812
9.2		
		1.3

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Mass



A bag of flour has a mass of 1 kg. It would take 1000 birthday candles to have the same mass as a bag of flour.



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Kilograms (kg)	$\times 1000$ \rightleftharpoons $\div 1000$	Grams (g)
		3000
2.4		
		2

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Capacity



A jug holds 1 L of water. A pipette holds 1 ml of water. How many pipettes would it take to fill a jug with water? 1000.



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Litre (L)	$\times 1000$ \rightleftharpoons $\div 1000$	Millilitre (ml)
		76000
0.06		
		88