Length/mass/capacity/temperature

6 questions | 9 marks

Equivalent correct methods earn the corresponding marks.

1. Name the quantity measured by a thermometer. [1 mark]

A thermometer tells how hot or cold something is.

Answer: Temperature.

2. Choose a useful unit for a classroom's length: cm, m or °C. [1 mark]

It is a length.

Metres give a practical number for a room.

Answer: Metres (m).

3. Choose a sensible capacity for a drink carton: 250 mL or 250 L. [1 mark]

A small carton cannot hold hundreds of litres.

Answer: 250 mL.

4. Match ruler, kitchen scales and measuring jug to length, mass and liquid amount. [3 marks]

Use the instrument designed for each quantity.

Answer: Ruler: length; scales: mass; jug: liquid amount.

5. A learner writes that a pencil has a mass of 15 cm. Explain and correct the unit type. [2 marks]

The quantity and unit must match.

A sensible possible pencil mass is 15 g; the actual pencil must be weighed.

Answer: Centimetres measure length, not mass. A mass could be stated in grams.

6. A parcel has a mass of 1000 g. Use $1000\,\text{g} = 1\,\text{kg}$ to express its mass in kilograms. [1 mark]

The given equality states that 1000 grams is one kilogram.

Answer: 1 kg