Scaled instruments

6 questions | 11 marks

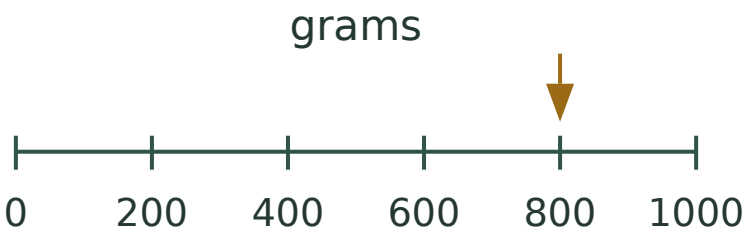
Equivalent correct methods earn the corresponding marks.

1. A ruler has 10 equal gaps from 0 to 10 cm. What does each gap represent? [1 mark]

10 ÷ 10 = 1 cm.

Answer: 1 cm

2. Read the mass pointer. [2 marks]

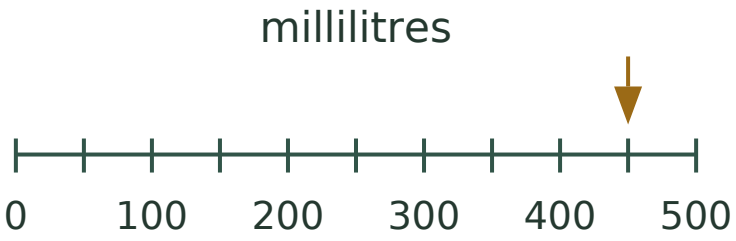


Five gaps cover 1000 g, so each is 200 g.

The pointer is four gaps from 0: 4 × 200 = 800 g.

Answer: 800 g

3. Read the liquid pointer. [2 marks]



Each small gap is 50 mL.

One gap after 400 is 450 mL.

Answer: 450 mL

4. A scale has five equal gaps from 0 to 50 kg. A pointer is four gaps from 0. Find the mass. [2 marks]

50 ÷ 5 = 10 kg each.

4 × 10 = 40 kg.

Answer: 40 kg

5. A temperature scale rises from 10 °C to 30 °C in four equal gaps. Give the values at all five marks. [2 marks]

The difference is 20 °C.

20 ÷ 4 = 5 °C per gap.

Answer: 10, 15, 20, 25, 30 °C

6. A learner counts the two marks labelled 0 and 10 as two intervals. Explain why that is wrong. [2 marks]

Intervals are spaces between marks, not the marks themselves.

Answer: There is one gap between those two marks.