Marking guide | Metric measurement and area

Year 6 Metric measurement and area topic test

12 questions | 18 marks | 30 minutes

A hand-solvable review that builds from familiar skills to reasoning and practical applications.

Equivalent correct methods earn the corresponding marks.

1. Convert 2.6 m to centimetres. [1 mark]

$2.6 \times 100 = 260$.

Answer: 260 cm.

2. Convert 850 g to kilograms. [1 mark]

$850 \div 1,000 = 0.85$.

Answer: 0.85 kg.

3. Convert 1.8 L to millilitres. [1 mark]

$1.8 \times 1,000 = 1,800$.

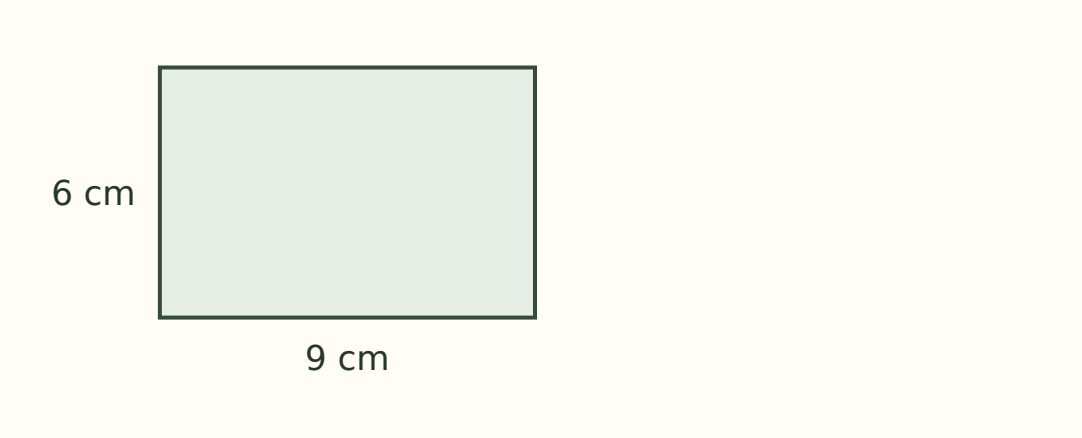
Answer: 1,800 mL.

4. Convert 3,250 m to kilometres. [1 mark]

$3,250 \div 1,000 = 3.25$.

Answer: 3.25 km.

5. Find the area of a rectangle 9 cm by 6 cm. [1 mark]



$9 \times 6 = 54$.

Answer: 54 square centimetres.

6. A rectangle is 2 m long and 40 cm wide. Find its area in square centimetres. [2 marks]

$2\,\text{m} = 200\,\text{cm};\ 200 \times 40 = 8,000$.

Answer: 8,000 square centimetres.

7. Area is 84 square metres and width is 7 m. Find the length. [1 mark]

$84 \div 7 = 12$.

Answer: 12 m.

8. A rectangle has area 50 square centimetres. Give two different whole-number side pairs. [2 marks]

Each pair has product 50. Other valid pairs are acceptable.

Answer: For example, 10 cm by 5 cm and 25 cm by 2 cm.

9. An object begins at 4.2 cm and ends at 17.2 cm on a ruler. Find its length. [1 mark]

$17.2 - 4.2 = 13.$

Answer: 13 cm.

10. A garden measures 8 m by 5 m. Find its area and perimeter. [2 marks]

$8 \times 5 = 40;\ 8 + 5 + 8 + 5 = 26.$

Answer: Area 40 square metres; perimeter 26 m.

11. A rectangular wall measures 4 m by 3 m. Square panels have sides of 1 m. How many panels cover it exactly? State an assumption. [3 marks]

The wall area is 12 square metres; each panel covers 1 square metre.

Answer: 12 panels, assuming no gaps, overlaps or openings to leave uncovered.

12. A student says that a 1 m by 50 cm rectangle has area 50 square centimetres. Explain the error and correct the answer. [2 marks]

$1\,\text{m} = 100\,\text{cm}$, so $\text{area} = 100 \times 50 = 5,000$ square centimetres.

Answer: The side units must match. Its area is 5,000 square centimetres.