Worked answers | Surface area, volume and measurement

Unit conversion

6 questions | 11 marks

Equivalent correct methods earn the corresponding marks.

1. Convert 3.2 m to centimetres. [1 mark]

$3.2 \times 100 = 320$ cm.

Answer: 320 cm

2. Convert 450 cm^2 to square metres. [2 marks]

$450 \div 10000 = 0.045$ m^2.

Answer: 0.045 m^2

3. Convert 0.006 m^3 to cubic centimetres. [2 marks]

$0.006 \times 1000000 = 6000$ cm^3.

Answer: 6000 cm^3

4. Convert 7500 mL to litres. [1 mark]

$7500 \div 1000 = 7.5$ L.

Answer: 7.5 L

5. Convert 0.82 m^2 to square centimetres. [2 marks]

$0.82 \times 10000 = 8200$ cm^2.

Answer: 8200 cm^2

6. A prism has internal dimensions 12 cm, 8 cm and 0.5 m. Find its capacity in litres. [3 marks]

0.5 m $= 50$ cm. Volume $= 12 \times 8 \times 50 = 4800$ cm^3.

$4800 \div 1000 = 4.8$ L.

Answer: 4.8 L