## Solutions

Marking: **M1** a correct method, **A1** the correct answer.

Each answer shows the steps, then the **result**.

**2.1**

- $3.5 \times 100$

$$= \mathbf{350} \text{ cm}$$

**2.2**

- $1 \text{ m}^2 = 100 \times 100 = 10\,000 \text{ cm}^2$, so divide by $10\,000$

$$24\,000 \div 10\,000 = \mathbf{2.4} \text{ m}^\mathbf{2}$$

**2.3**

- $1 \text{ litre} = 1000 \text{ cm}^3$

$$0.75 \times 1000 = \mathbf{750} \text{ cm}^\mathbf{3}$$

**3.1**

(a)

- convert first: $80 \text{ cm} = 0.8 \text{ m}$
- area $= 2.4 \times 0.8$

$$= \mathbf{1.92} \text{ m}^\mathbf{2}$$

(b)

- multiply by $10\,000$, because this is an AREA

$$1.92 \times 10\,000 = \mathbf{19\,200} \text{ cm}^\mathbf{2}$$

**3.2**

- $1 \text{ m}^3 = 1\,000\,000 \text{ cm}^3$, so $4.5 \text{ m}^3 = 4\,500\,000 \text{ cm}^3$
- $1000 \text{ cm}^3 = 1 \text{ litre}$

$$4\,500\,000 \div 1000 = \mathbf{4500} \text{ litres}$$