

Solutions

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

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

2.1

- real distance = $6 \times 50\,000 = 300\,000$ cm
- convert: $\div 100$ for metres, then $\div 1000$ for kilometres

$$= \mathbf{3 \text{ km}}$$

2.2

- $70 < 180$, so add 180

$$= \mathbf{250^\circ}$$

2.3

- clockwise from north: east 090, south 180, west

$$= \mathbf{270^\circ}$$

3.1

(a)

- real length = $18 \times 25 = 450$ cm

$$= \mathbf{4.5 \text{ m}}$$

(b)

- $3 \text{ m} = 300 \text{ cm}$, so the model is $300 \div 25$

$$= \mathbf{12 \text{ cm}}$$

3.2

(a)

- $145 < 180$, so add 180

$$= \mathbf{325^\circ}$$

(b)

- C is due WEST of B , so standing at B and turning clockwise from north

$$= \mathbf{270^\circ}$$

- the position of A is not needed for this part — read which point you are standing on