

Solutions

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

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

2.1

$$c = \sqrt{6^2 + 8^2} = \sqrt{100} = \mathbf{10} \text{ cm}$$

2.2

$$\sqrt{17^2 - 8^2} = \sqrt{289 - 64} = \sqrt{225} = \mathbf{15} \text{ cm}$$

2.3

$$c = \sqrt{5^2 + 12^2} = \sqrt{169} = \mathbf{13} \text{ cm}$$

3.1

$$\sqrt{5^2 - 1.4^2} = \sqrt{25 - 1.96} = \sqrt{23.04} = \mathbf{4.80} \text{ m}$$

3.2

$$\sqrt{9^2 + 12^2} = \sqrt{81 + 144} = \sqrt{225} = \mathbf{15} \text{ cm}$$