## Solutions

Marking: **M1** a correct method, **A1** the correct answer, **B1** an independent mark.

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

**2.1**

- area $9 \times 5 = \mathbf{45}$ cm$^2$
- perimeter $2(9 + 5) = \mathbf{28}$ cm

**2.2**

- $\frac{1}{2} \times 14 \times 6 = \mathbf{42}$ cm$^2$

**2.3**

- $11 \times 4 = \mathbf{44}$ cm$^2$

**2.4**

- $\frac{1}{2}(8 + 12) \times 5$
- $= \mathbf{50}$ cm$^2$

**2.5**

- side $= \sqrt{64} = 8$ cm
- perimeter $4 \times 8 = \mathbf{32}$ cm

**3.1**

(a)

- missing sides $10 - 6 = 4$ cm and $7 - 4 = 3$ cm
- $10 + 4 + 4 + 3 + 6 + 7 = \mathbf{34}$ cm

(b)

- $10 \times 4 + 6 \times 3$
- $= 40 + 18 = \mathbf{58}$ cm$^2$

**3.2**

- $\frac{1}{2} \times 9 \times h = 36$
- $h = 72 \div 9 = \mathbf{8}$ cm

**3.3**

(a)

- $\frac{1}{2}(40 + 64) \times 25$
- $= \mathbf{1300}$ m$^2$

(b)

- $1300 \div 150 = 8.66\ldots$
- **9** bags

**3.4**

(a)

- $5.2 \times 3.5 = \mathbf{18.2}$ m$^2$

(b)

- $0.4 \times 0.4 = \mathbf{0.16}$ m$^2$

(c)

- $18.2 \div 0.16 = 113.75$, so 114 tiles
- $114 \div 12 = 9.5$
- **10** boxes

(d)

- perimeter $2(5.2 + 3.5) = 17.4$ m
- $17.4 - 0.9 = \mathbf{16.5}$ m