# Test answers - Perimeter and area

Year: Year 4 · Duration: 35 minutes · /20

## Answer to Question 1 (4 marks)

a. $2 \times (13 + 8) = 2 \times 21 =$ **42 cm** (2 marks).
b. $4 \times 7 =$ **28 m** (1 mark).
c. The two widths are 12 cm, so the two lengths are $40 - 12 = 28$ cm. One length is **14 cm** (1 mark).

## Answer to Question 2 (4 marks)

a. Bottom rectangle: $6 \times 2 = 12$ cm². Top rectangle: $3 \times 2 = 6$ cm². Total **18 cm²** (2 marks).
b. $11 \times 6 =$ **66 cm²** (1 mark).
c. Sides: $6 + 2 + 3 + 2 + 3 + 4 =$ **20 cm** (1 mark). (Check: surrounding rectangle 6 by 4 has perimeter 20 cm.)

## Answer to Question 3 (4 marks)

a. A: $2 \times (9 + 1) = 20$ cm. B: $4 \times 5 = 20$ cm. Both are correct (2 marks).
b. A: $9 \times 1 = 9$ cm². B: $5 \times 5 = 25$ cm² (1 mark).
c. B has the bigger area. $25 - 9 =$ **16 cm²** (1 mark).

## Answer to Question 4 (4 marks)

a. The floor is a rectangle, so area = length × width = $6 \times 3 =$ **18 m²**. You can picture 3 rows of 6 one-metre squares (1 mark).
b. Each square metre costs £15, so multiply: $18 \times$ £15. Split it: $18 \times 10 = 180$ and $18 \times 5 = 90$, so $180 + 90 =$ **£270** (2 marks: 1 for multiplying the area by £15, 1 for £270).
c. The edging goes all round the edge, so it is the perimeter: $6 + 3 + 6 + 3 =$ **18 m**. It is a coincidence that this number matches the area; the units are different (1 mark).

## Answer to Question 5 (4 marks)

a. $10 + 4 + 5 + 3 + 5 + 7 =$ **34 m** (2 marks).
b. Bottom: $10 \times 4 = 40$. Top: $5 \times 3 = 15$. Total **55 m²** (2 marks).
c. $55 \div 5 = 11$, so $11 \times$ £2 = **£22** (1 mark).