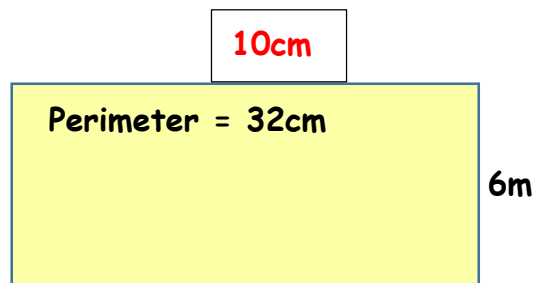
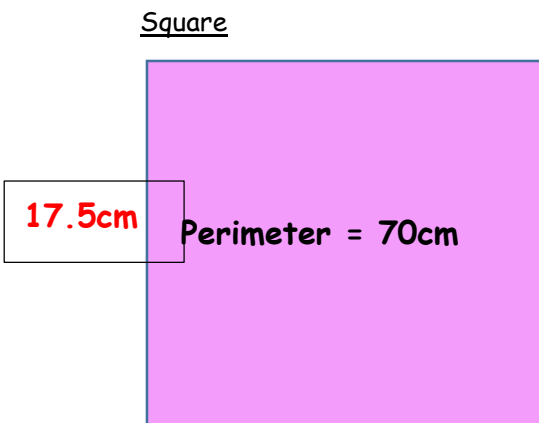
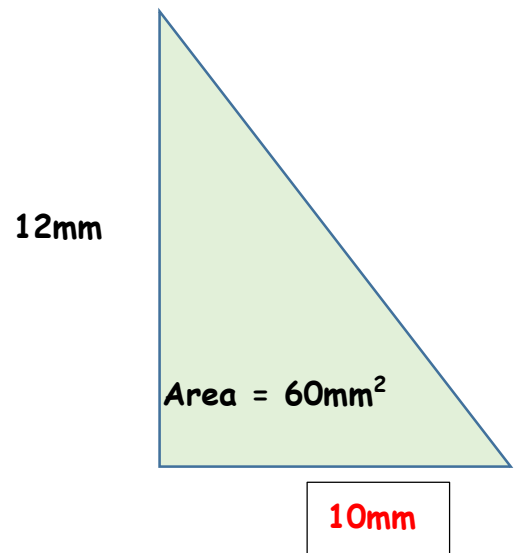
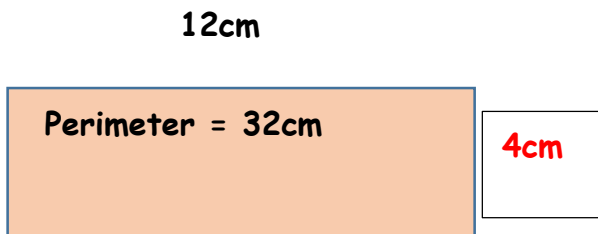
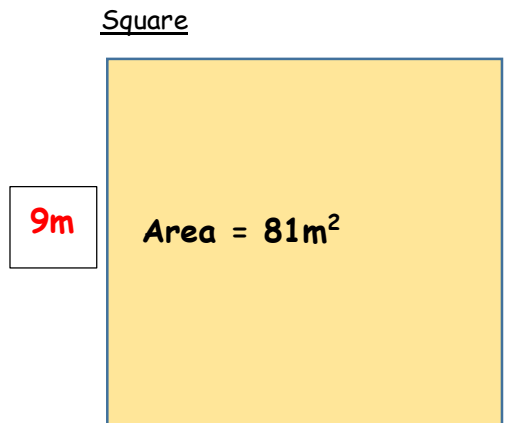
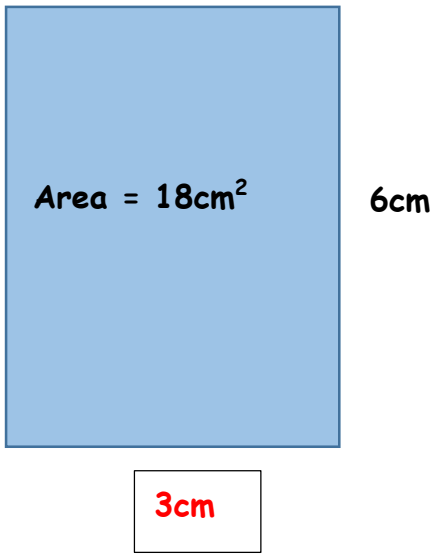


# Maths



## Mark schemes

### Q1.

Award **TWO** marks for the correct answer of **144**

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $8 \times 6 = 48$   
 $48 \div 4 = 13$  (error)  
 $13 \times 13 = 169$

**OR**

Award **ONE** mark for:

- evidence for the side length of the square calculated correctly, i.e. 12

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

### Q2.

**12**

2

*or*

Shows or implies a complete correct method, eg:

- $4 \times 6 \div 2 = 13$  (error)
- $60 - (10 \times 6 \div 2) - (6 \times 6 \div 2)$
- $60 - 48$

1

[2]

### Q3.

Indicates **No** and gives **a correct explanation** that includes indicating two different areas, eg:

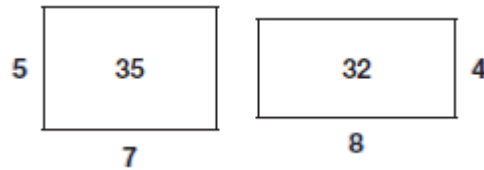
- A rectangle with sides 6 cm by 2 cm has a perimeter of 16 cm and an area of 12 cm<sup>2</sup> but a rectangle with sides 5 cm and 3 cm has the same perimeter of 16 cm but it has an area of 15 cm<sup>2</sup> which is different so she is not correct
- A square with sides 3 cm by 3 cm and a rectangle with sides 4 cm by 2 cm have the same perimeter of 12 cm but they have different

areas of  $9 \text{ cm}^2$  and  $8 \text{ cm}^2$

Accept minimally acceptable explanation, eg:

- $6 \times 2 = 12, 5 \times 3 = 15$

•



! Ignore any incorrect units given in an otherwise correct explanation, eg:

- $6^2$  for  $6 \text{ cm}^2$

! Indicates Yes, or no decision made, but explanation clearly correct

Condone, provided the explanation is more than minimal

**Do not accept** Incomplete or incorrect explanation, eg:

- $6 \times 2, 5 \times 3$

• Two rectangles, one with sides  $6 \text{ cm}$  by  $5 \text{ cm}$  and one with sides  $8 \text{ cm}$  by  $3 \text{ cm}$  have the same perimeter of  $22 \text{ cm}$  but they don't have the same area

•

