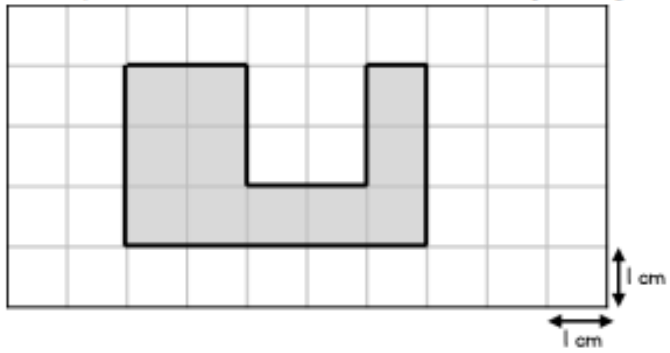
Answers

1 The shape is drawn on a centimetre square grid.



What is the area of the shape?

11 cm^2 ☐ 1 mark

What is the perimeter of the shape?

20 cm ☐ 1 mark

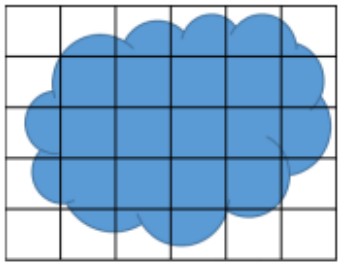
2 Sally says,

The two rectangles have the same area, so they must have the same perimeter.

Explain why Sally is wrong.

The perimeter of the first rectangle is 22 cm and the perimeter of the second rectangle is 18 cm. ☐ 1 mark

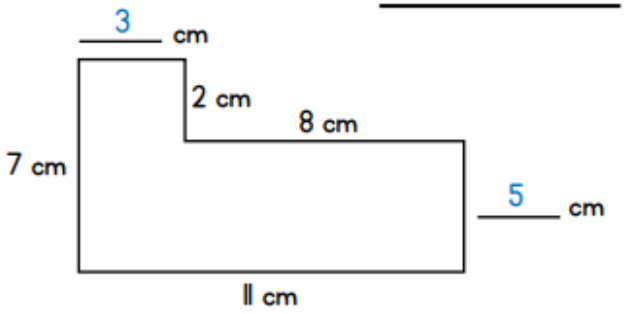
3 Estimate, in squares, the area of the shape.



Award 1 mark for evidence of an effective method to count the squares.

19 squares ☐ 2 marks

4

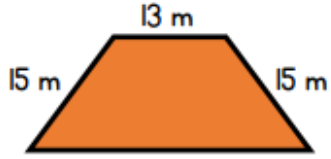


Complete the missing lengths. ☐ 1 mark

Work out the perimeter of the shape.

36 cm ☐ 1 mark

5 The perimeter of the shape is 60 m.

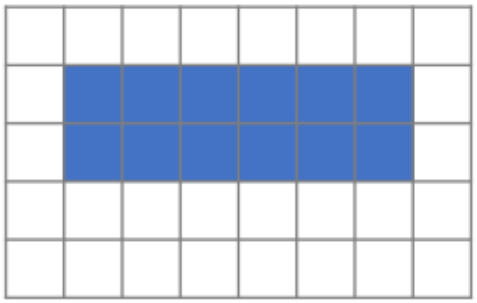


Find the length of the missing side.

Award 1 mark for adding the 3 lengths and then subtracting from the total but with an error in the calculation

17 m ☐ 2 marks

6 Draw a rectangle which has an area of 12 squares and a perimeter of 16 squares.



Award 1 mark for a rectangle with area of 12 squares but not a perimeter of 16 or vice versa.

2 marks

7 The square and the regular hexagon have the **same** perimeter.

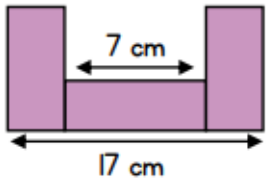
Work out the length of one side of the square.

Award 1 mark for working out the perimeter of the hexagon is 48 cm

12 cm

2 marks

8 The shape is made up of three identical rectangles.



Work out the area of the shape.

Award 1 mark for finding the missing length of each rectangle is 5 cm

Award 2 marks for then calculating the area of each rectangle is 35 cm^2

105 cm^2

3 marks

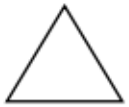
9 Ian wants to paint a wall measuring 3 metres by 7 metres.
Each tin of paint covers 5 m^2.
How many tins of paint will Ian need?

Award 1 mark for calculating the area of the wall is 21 m^2

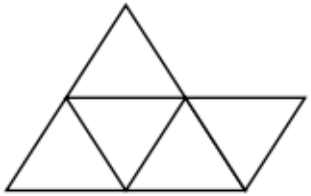
5 tins

2 marks

10 An equilateral triangle has a perimeter of 21 cm.



John uses 5 of the triangles to make this shape.



What is the perimeter of the new shape he has made?

Award 1 mark for working out that each side of a triangle is 7 cm but then making a calculation error when adding.

49 cm

2 marks

Circle how confident you feel with area & perimeter.

1 2 3 4 5

1 Not confident

5 Very confident