

Area and Perimeter

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NAME _____

DATE _____

1 Here is a rectangle.

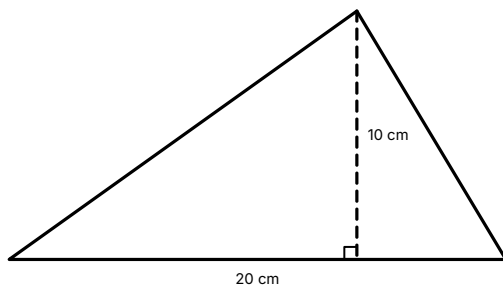
 EITHER PAPER 4 MARKS



- (a) Find the perimeter of the rectangle.
- (b) Find the area of the rectangle.

2 Here is a triangle. The dashed line is the perpendicular height.

 EITHER PAPER 2 MARKS



Work out the area of the triangle.

3 Here is a rectangle with an area of 12 cm^2 .

EITHER PAPER 4 MARKS

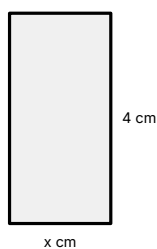


Diagram NOT accurately drawn

- (a) Work out the length of the side marked x .
- (b) Work out the perimeter of the rectangle.

4 The diagram shows a right-angled triangle.

EITHER PAPER 4 MARKS

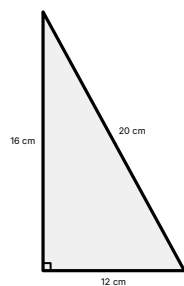
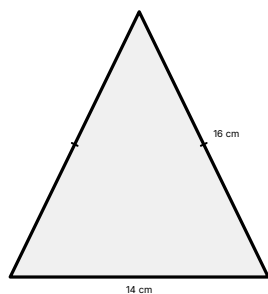


Diagram NOT accurately drawn

- (a) Find the perimeter of the triangle.
- (b) Find the area of the triangle.

5 The diagram shows an isosceles triangle.

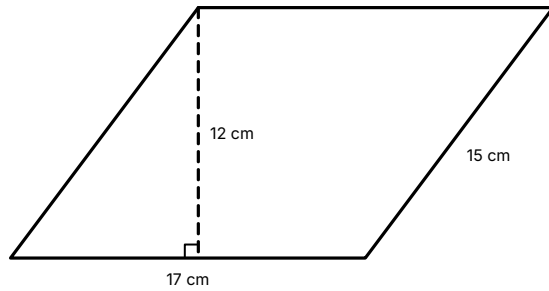
EITHER PAPER 2 MARKS



Find the perimeter of the triangle.

- 6 The diagram shows a parallelogram.

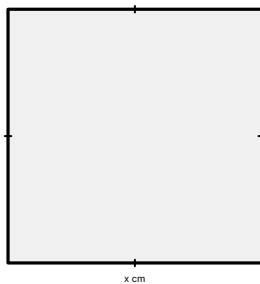
EITHER PAPER 4 MARKS



- (a) Work out the area of the parallelogram.
(b) Work out the perimeter of the parallelogram.

- 7 The square below has an area of 121 cm^2 .

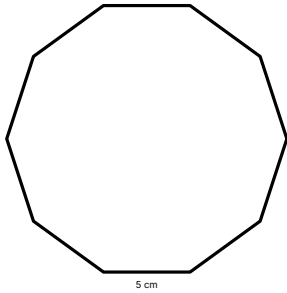
EITHER PAPER 3 MARKS



- (a) Find the length of the side marked x .
(b) Find the perimeter of the square.

8 Here is a regular decagon.

EITHER PAPER 4 MARKS



- (a) Calculate the perimeter of the decagon.
- (b) A different regular decagon has a perimeter of 70 cm.
- Calculate the length of one of its sides.

9 Here is a rectangular carpet that measures 11 m by 9 m.

EITHER PAPER 2 MARKS

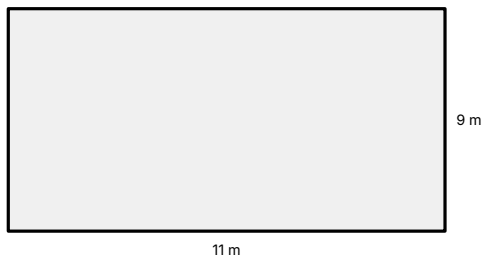
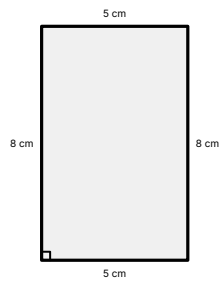


Diagram NOT accurately drawn

Part of the carpet is covered by a square rug of side 3 m.

Show that $\frac{1}{11}$ of the carpet is covered by the rug.



Callum writes, "The area is 26 cm^2 because $5 + 8 + 5 + 8 = 26$ ".

- (a) Explain what is wrong with Callum's method.
- (b) Sofia works out the area of a different shape. Her answer is 110 cm .

Explain why her answer cannot be fully correct.

- (c) Calculate the correct area of Callum's rectangle.

1	(a) 46 cm (b) 112 cm ²	2	100 cm ²
3	(a) 3 cm (b) 14 cm	4	(a) 48 cm (b) 96 cm ²
5	46 cm	6	(a) 204 cm ² (b) 64 cm
7	(a) 11 cm (b) 44 cm	8	(a) 50 cm (b) 7 cm
9	$\frac{3^2}{11 \times 9} = \frac{9}{99} = \frac{1}{11}$	10	(a) Callum added all four sides, which gives the perimeter (the distance round the edge) and not the area. The area is length $\times$ width = $5 \times 8 = 40 \text{ cm}^2$, not 26 cm^2 . (b) cm is a unit of length, but an area is measured in square units, so the answer should be 110 cm^2 . (c) 40 cm^2