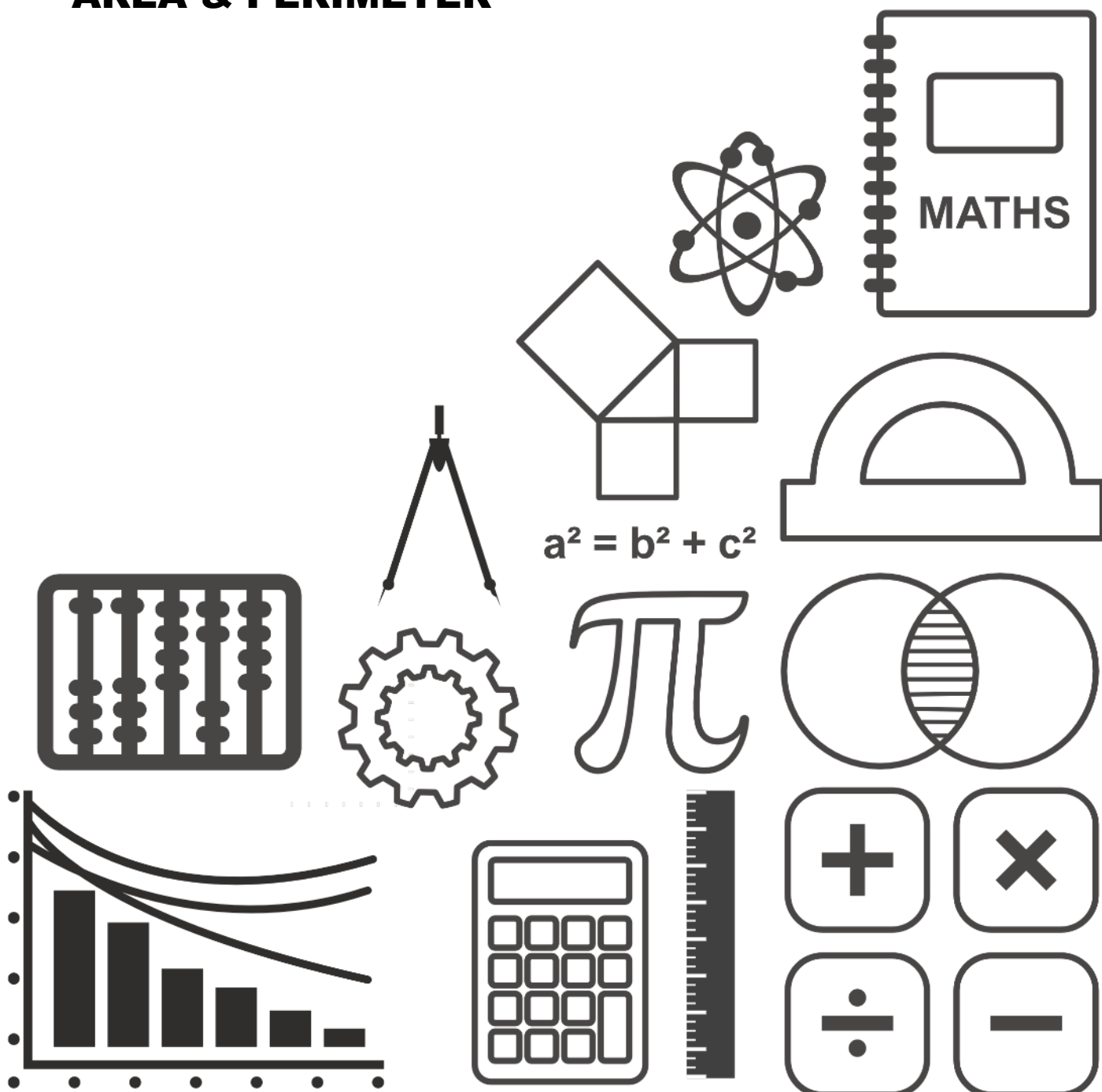


MATHSDIY

GCSE TOPIC BOOKLET AREA & PERIMETER



1.

The diagram represents an 11 cm by 5 cm rectangle.

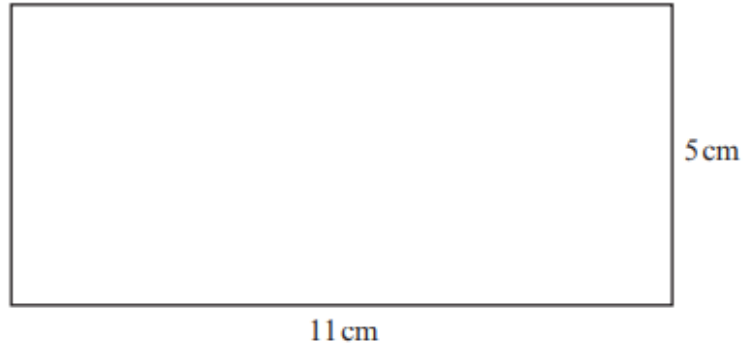


Diagram not drawn to scale

(a) Calculate the area of the rectangle, giving the units of your answer.

.....

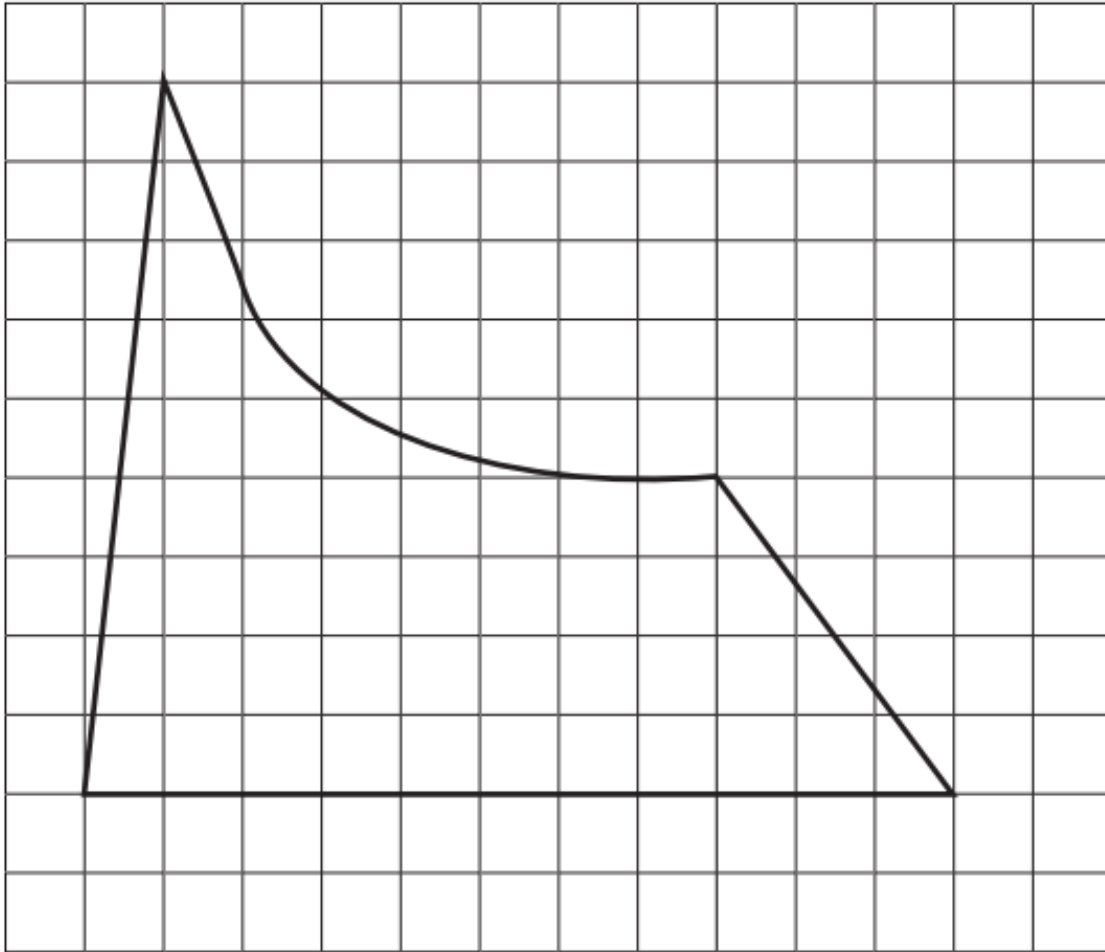
[3]

(b) Calculate the perimeter of the rectangle.

.....

[1]

2.



The above shape, drawn on a square grid, represents a garden. By counting squares, estimate the area of the garden when **every square represents an area of 5 m²**.

.....

.....

.....

.....

Area = m²

[3]

3.

Two overlapping rectangles, each 9 cm by 3 cm, are placed so as to make an L shape as shown in the diagram.

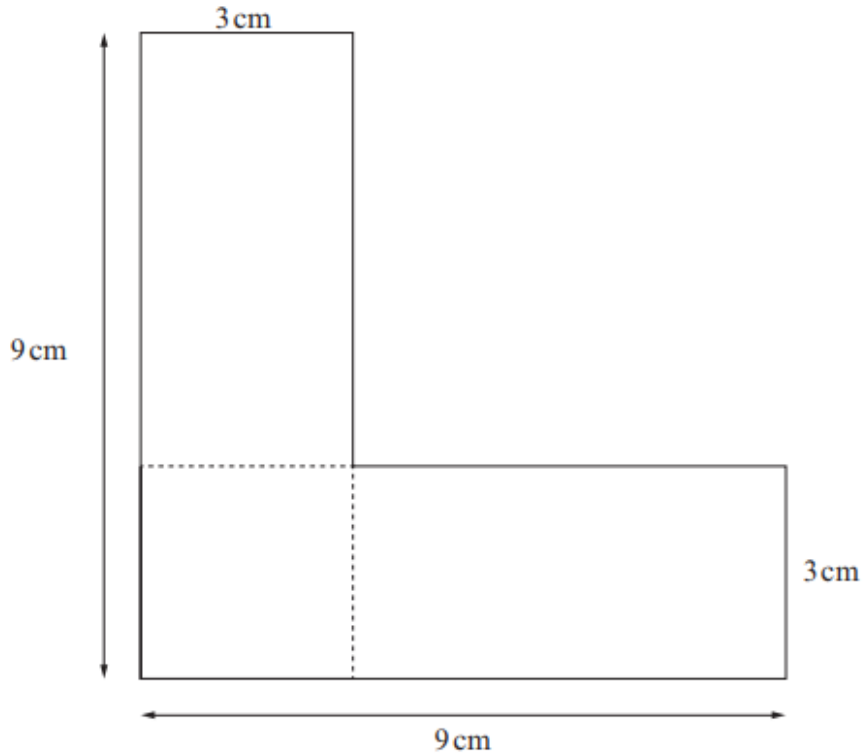


Diagram not drawn to scale

(a) Calculate the perimeter of the shape.

.....

.....

.....

[3]

(b) Calculate the area of the shape.
Write down the units of your answer.

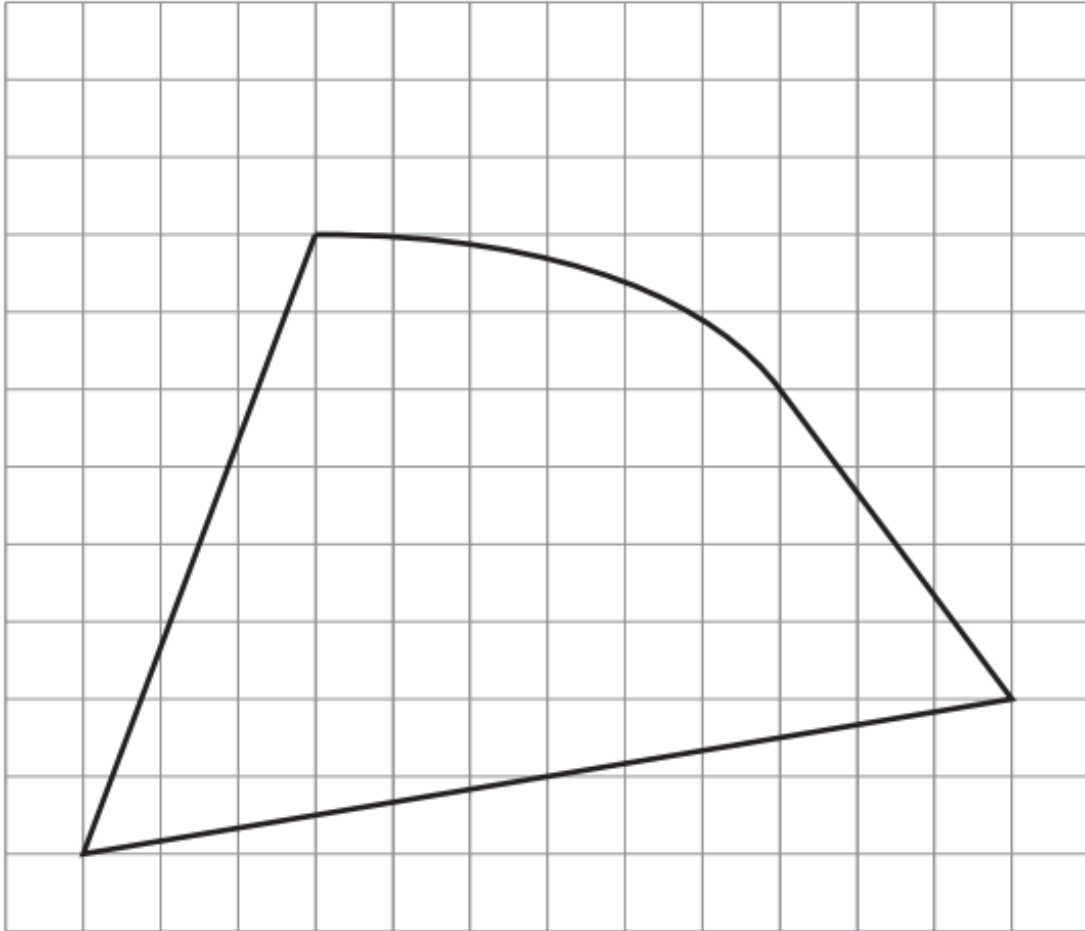
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.....

.....

[3]

4.



The above shape has been drawn on a centimetre square grid.
By counting squares, estimate the area of the above shape.

.....

.....

.....

.....

Area of the shape = cm²

[2]

5.

Three identical rectangles, each 10cm by 2cm, are placed to make the shape shown in the diagram.

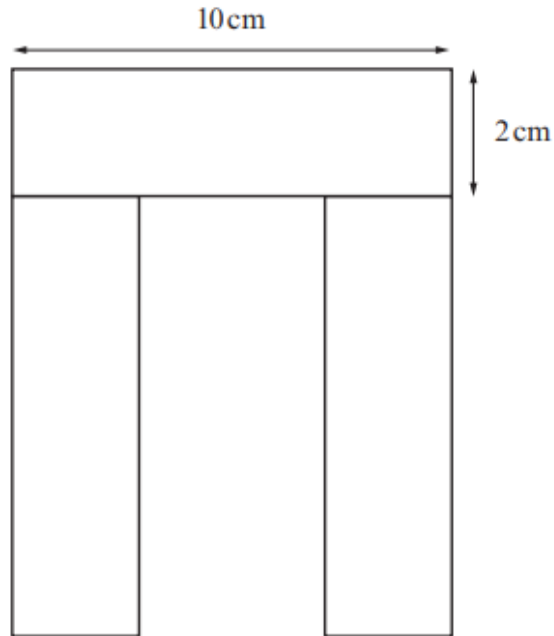


Diagram not drawn to scale

(a) Calculate the perimeter of the shape.

.....

.....

.....

[3]

(b) Calculate the area of the shape.
Write down the units of your answer.

.....

.....

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.....

[3]

6.

Three overlapping rectangles, each 8 cm by 3 cm, are placed so as to make the shape shown in the diagram.

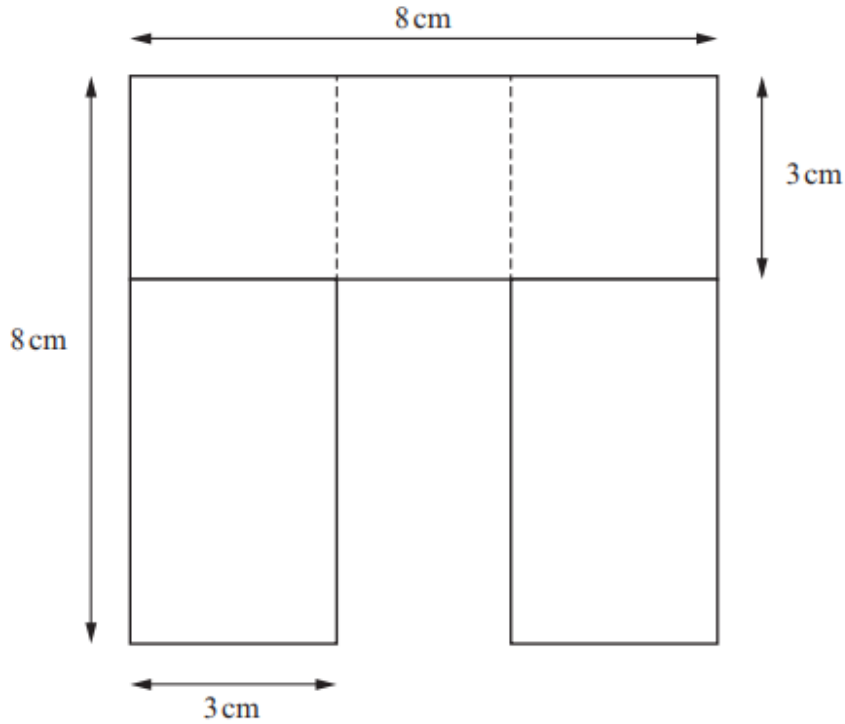


Diagram not drawn to scale

(a) Calculate the perimeter of the shape.

.....

.....

.....

[3]

(b) Calculate the area of the shape.
Write down the units of your answer.

.....

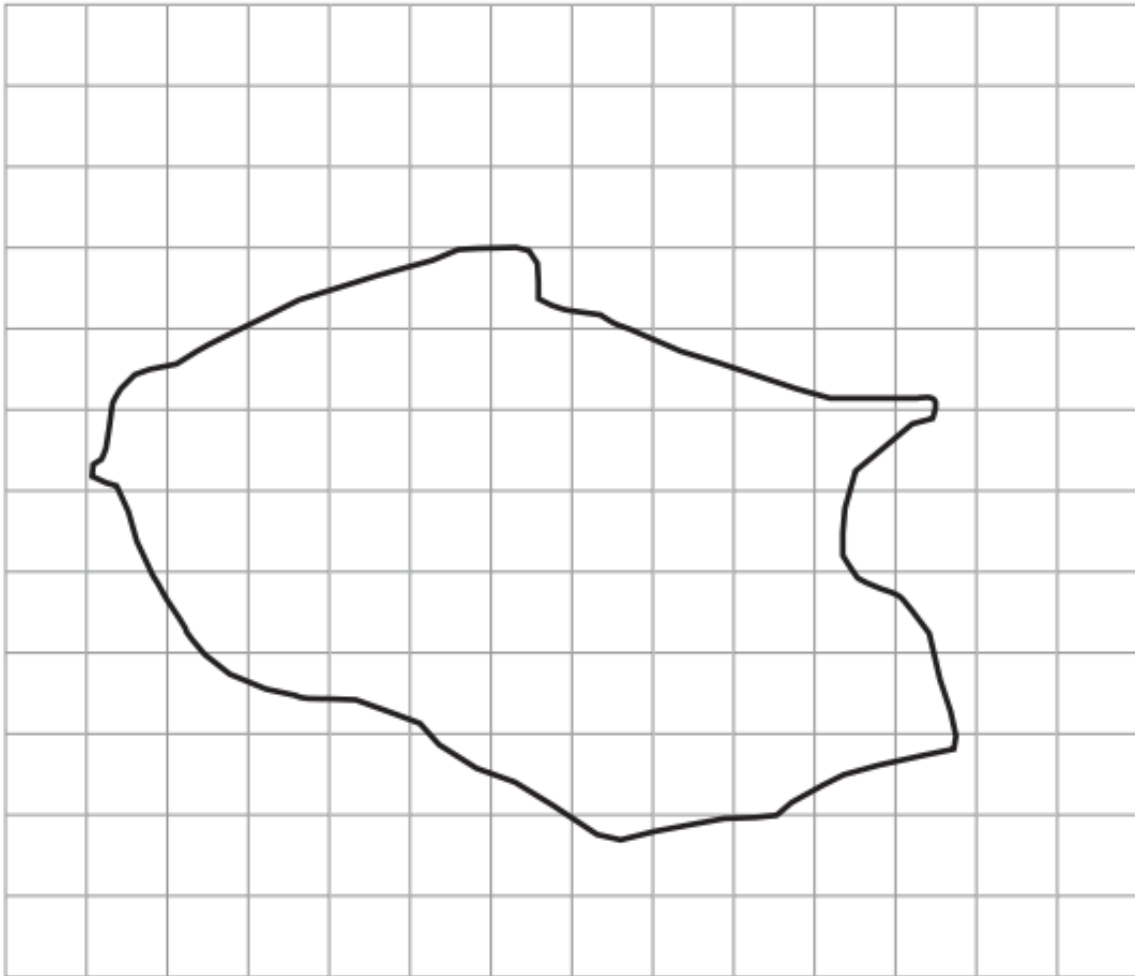
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[3]

7.



The above shape is the outline of a pond in a park.
 It is drawn on a square grid where each square represents 6 m^2 .
 Estimate the area of the surface of the pond.

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.....

.....

.....

Area of the surface of the pond = m^2

[3]

8.

Two identical rectangles, each measuring 8 cm by 3 cm, are placed with two identical squares to make the shape shown in the diagram.

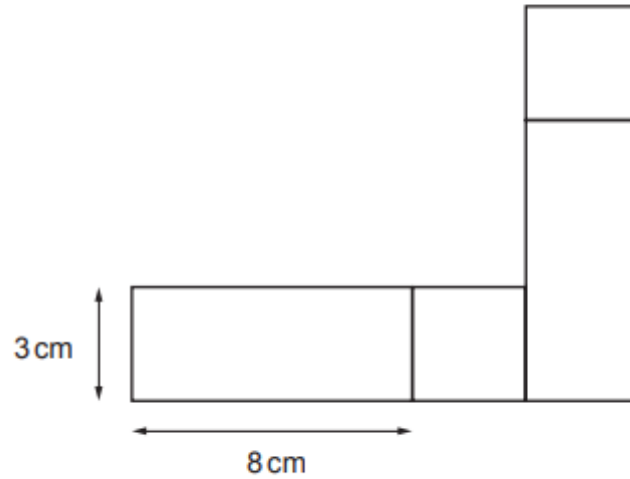


Diagram not drawn to scale

(a) Calculate the perimeter of the shape. [3]

.....

.....

.....

(b) Calculate the area of the shape.
Write down the units of your answer. [3]

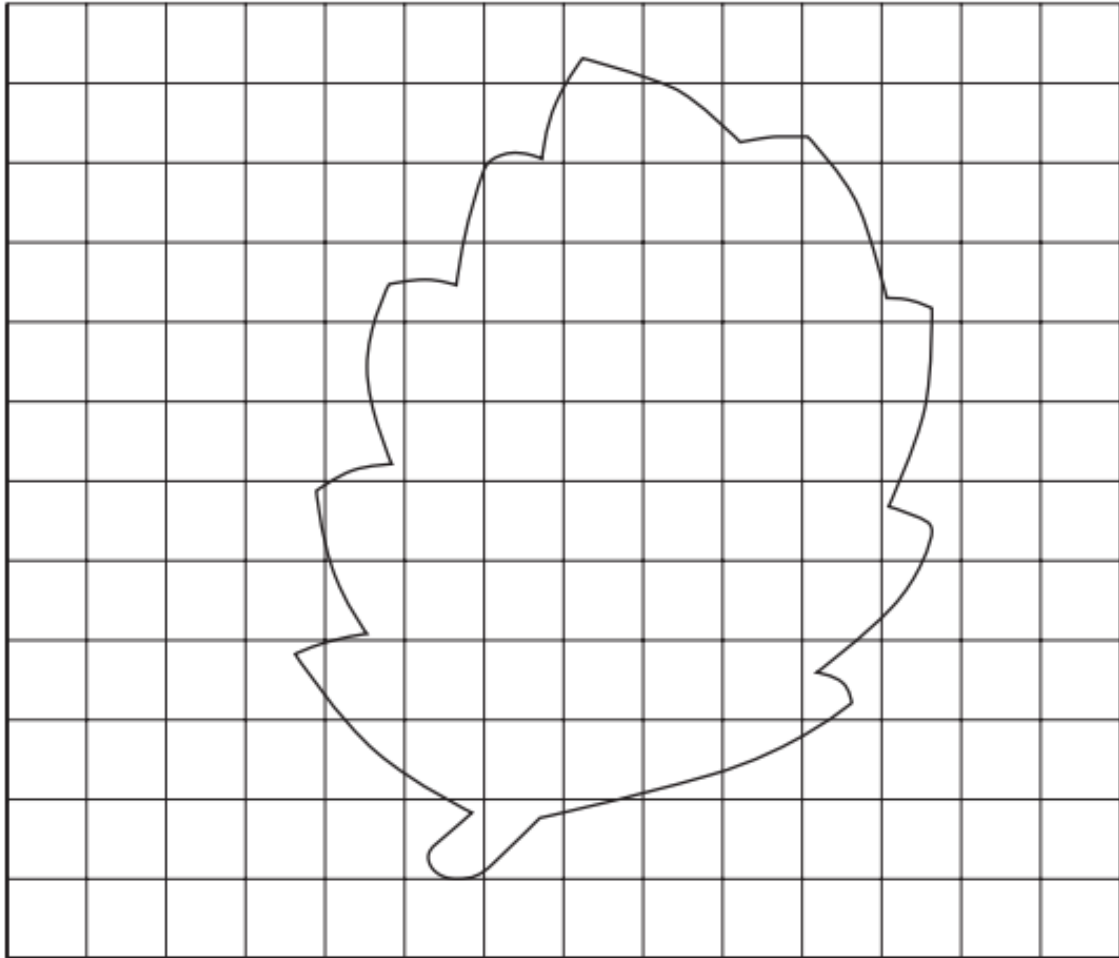
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9.



The above shape is the outline of a leaf.
 It is drawn on a square grid where each square represents 4 cm^2 .
 Estimate the area of the surface of the leaf.

[3]

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Area of the surface of the leaf = cm^2