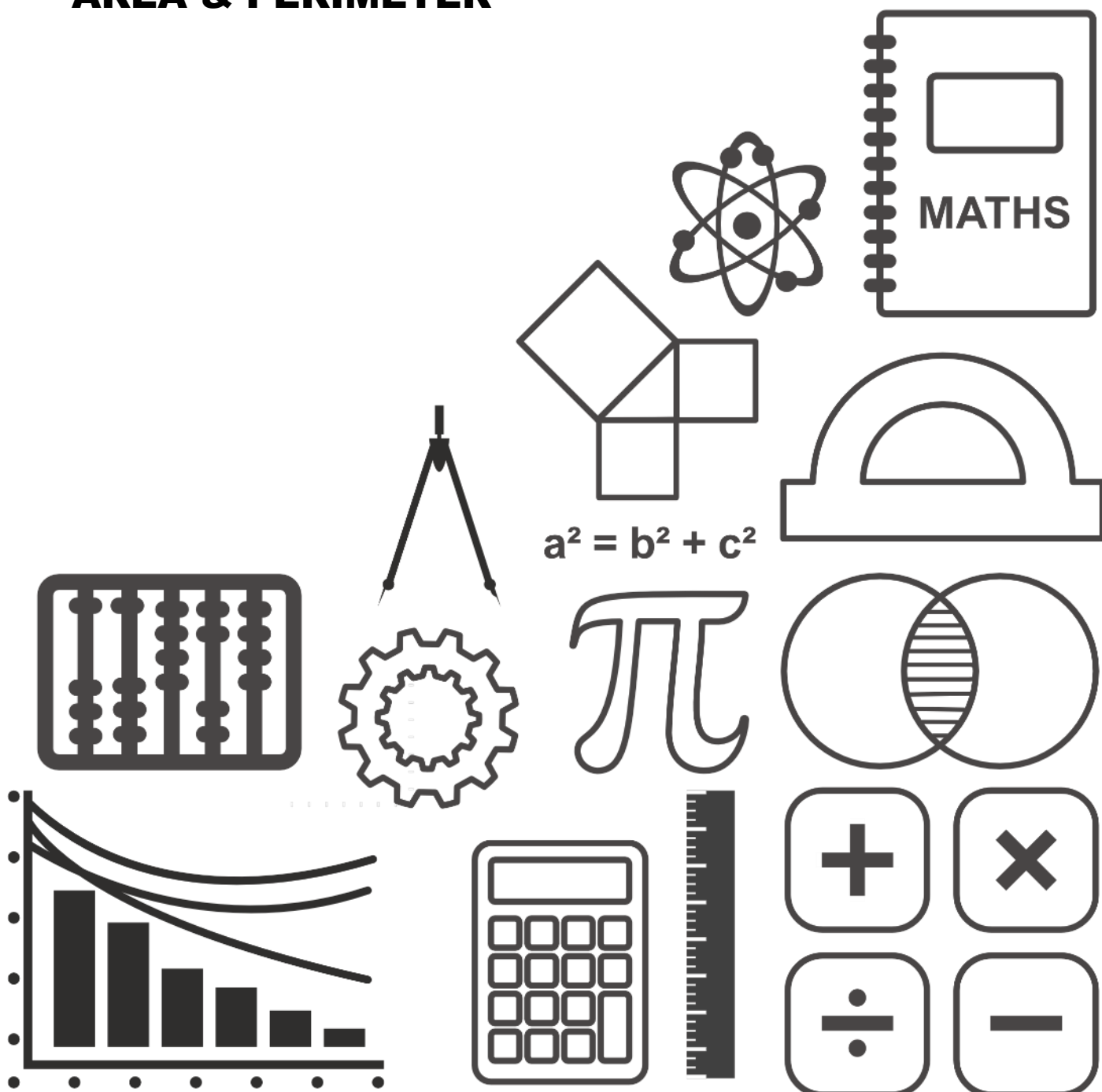


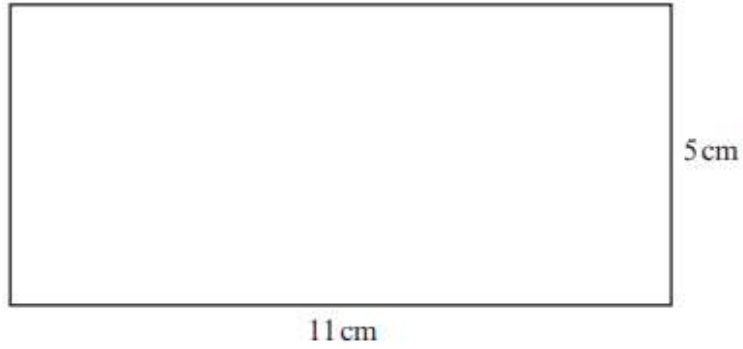
# MATHSDIY

## 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.

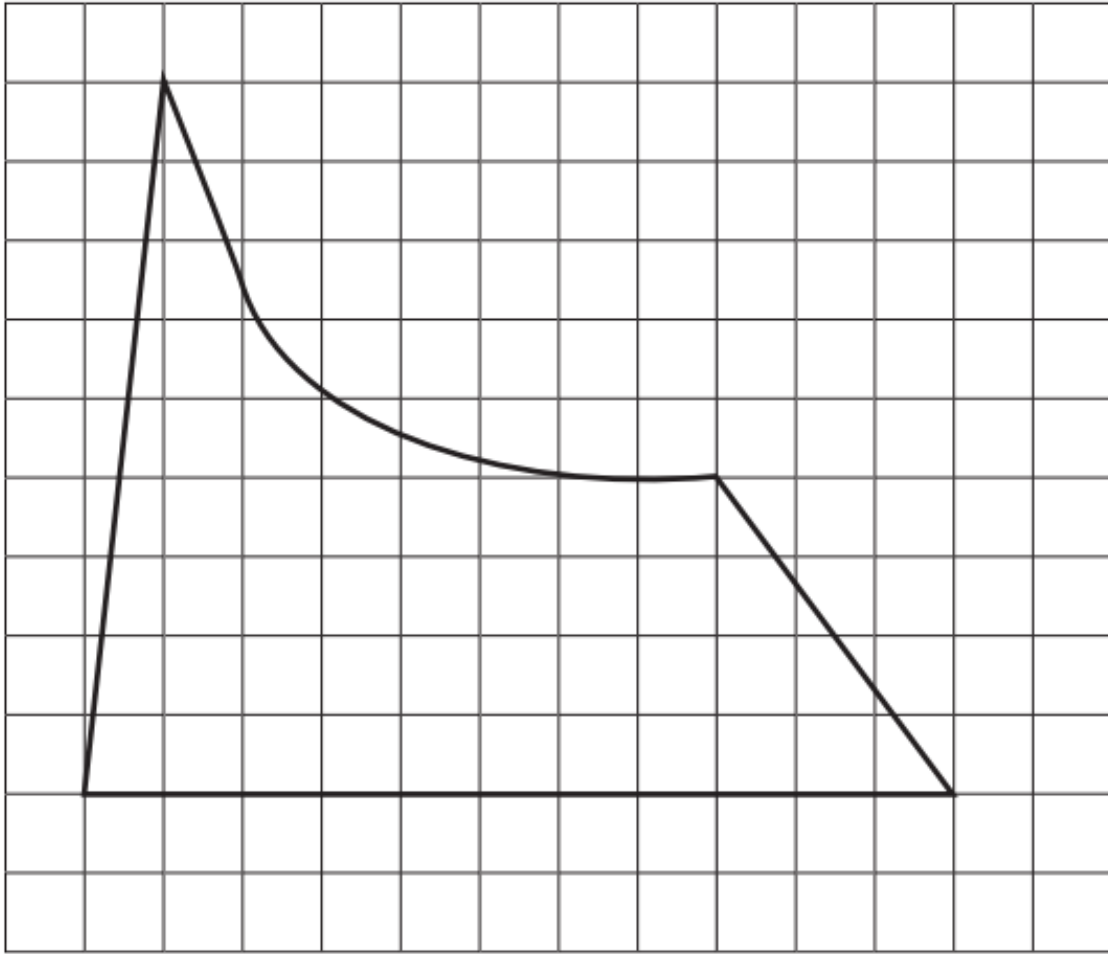
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[1]

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  $5 \text{ m}^2$ .

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.....

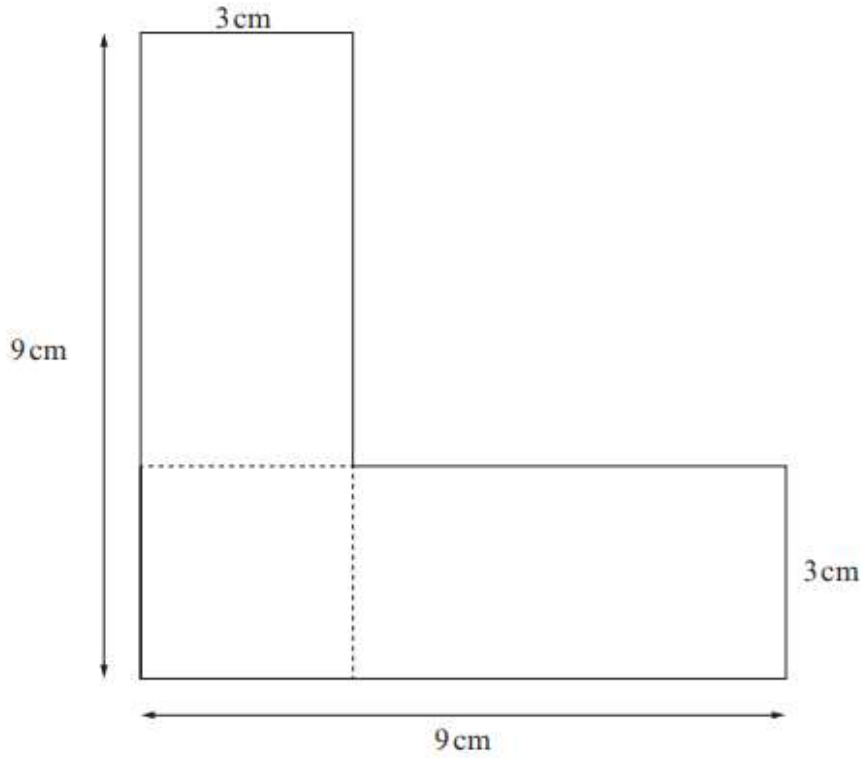
.....

Area = .....  $\text{m}^2$

[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.

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.....

.....

[3]

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

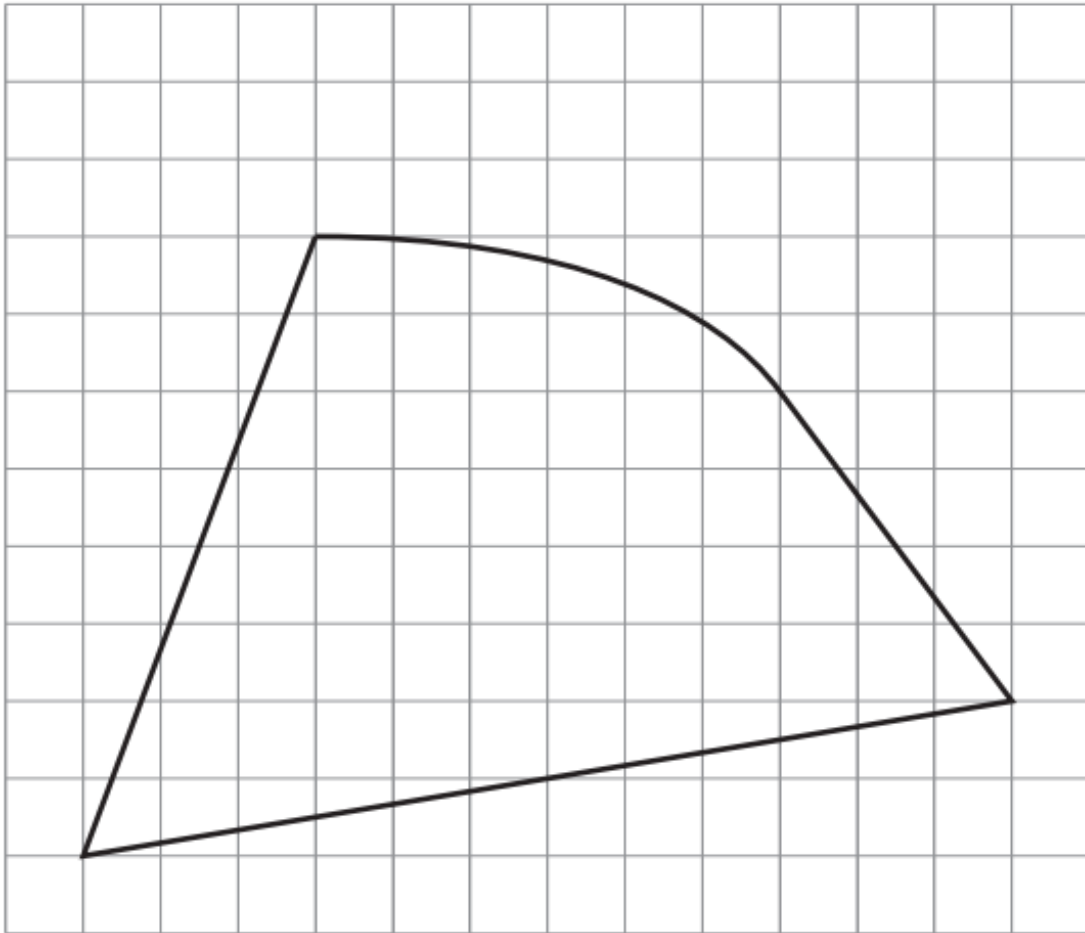
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[3]

4.



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

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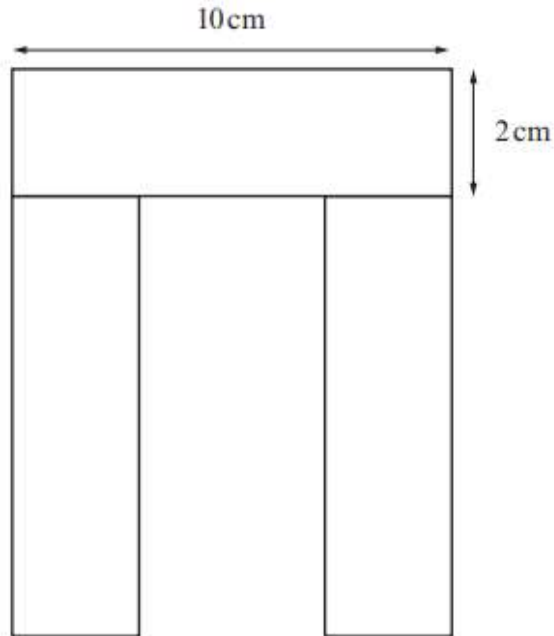
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Area of the shape = ..... cm<sup>2</sup>

[2]

5.

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



*Diagram not drawn to scale*

(a) Calculate the perimeter of the shape.

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[3]

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

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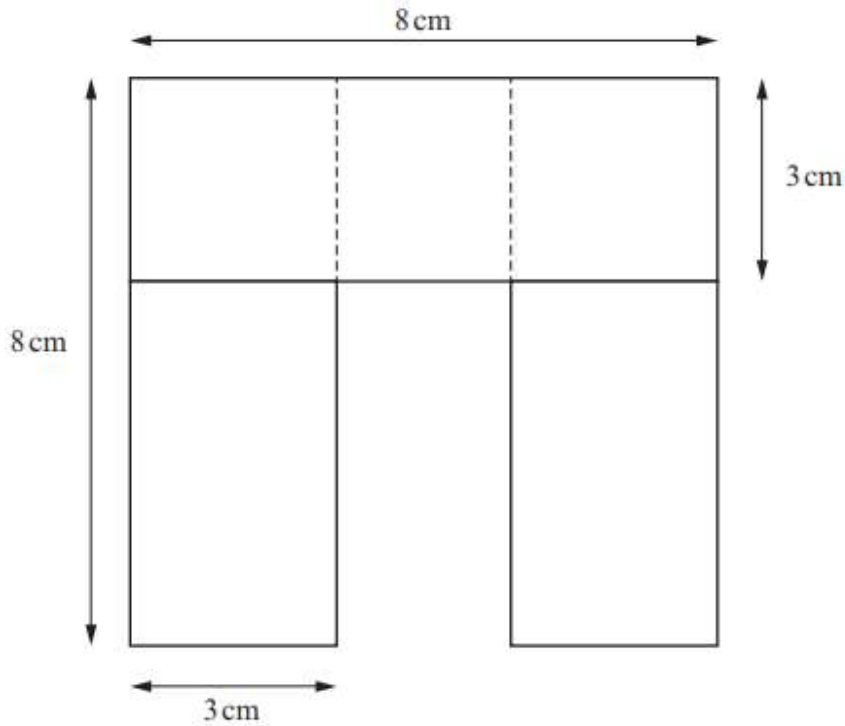
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[3]

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.

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.....

.....

[3]

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

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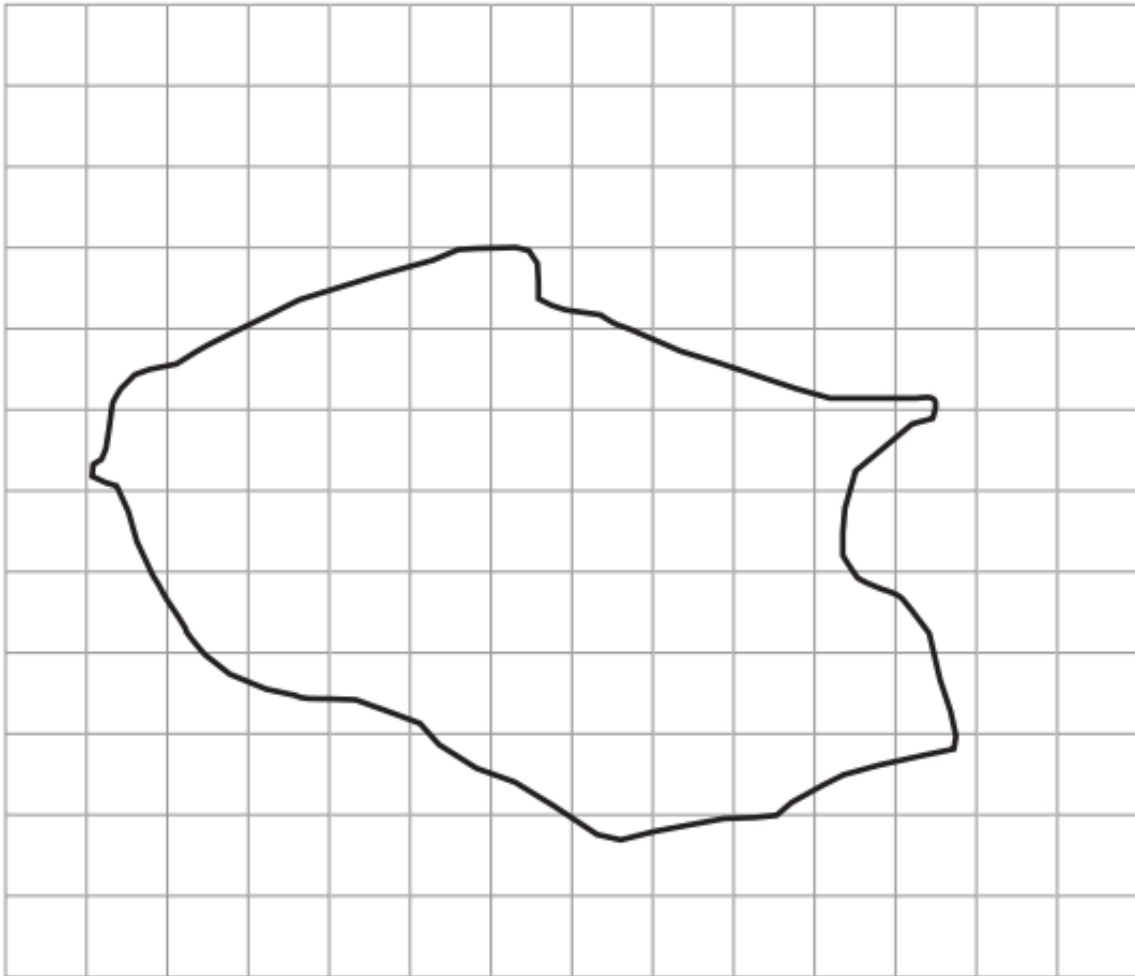
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[3]

7.



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

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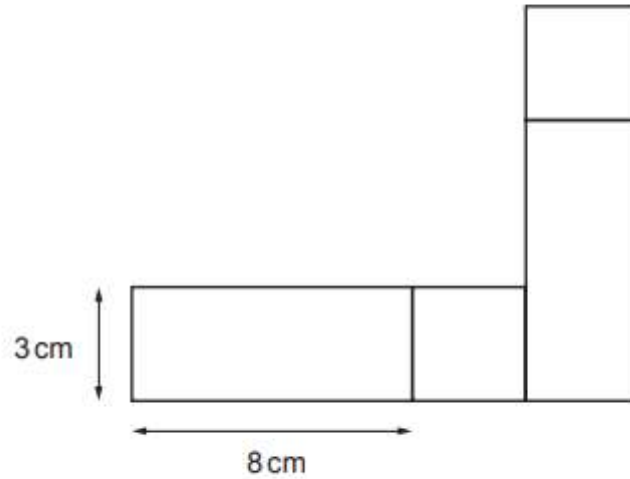
Area of the surface of the pond = .....  $\text{m}^2$

[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]

.....

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

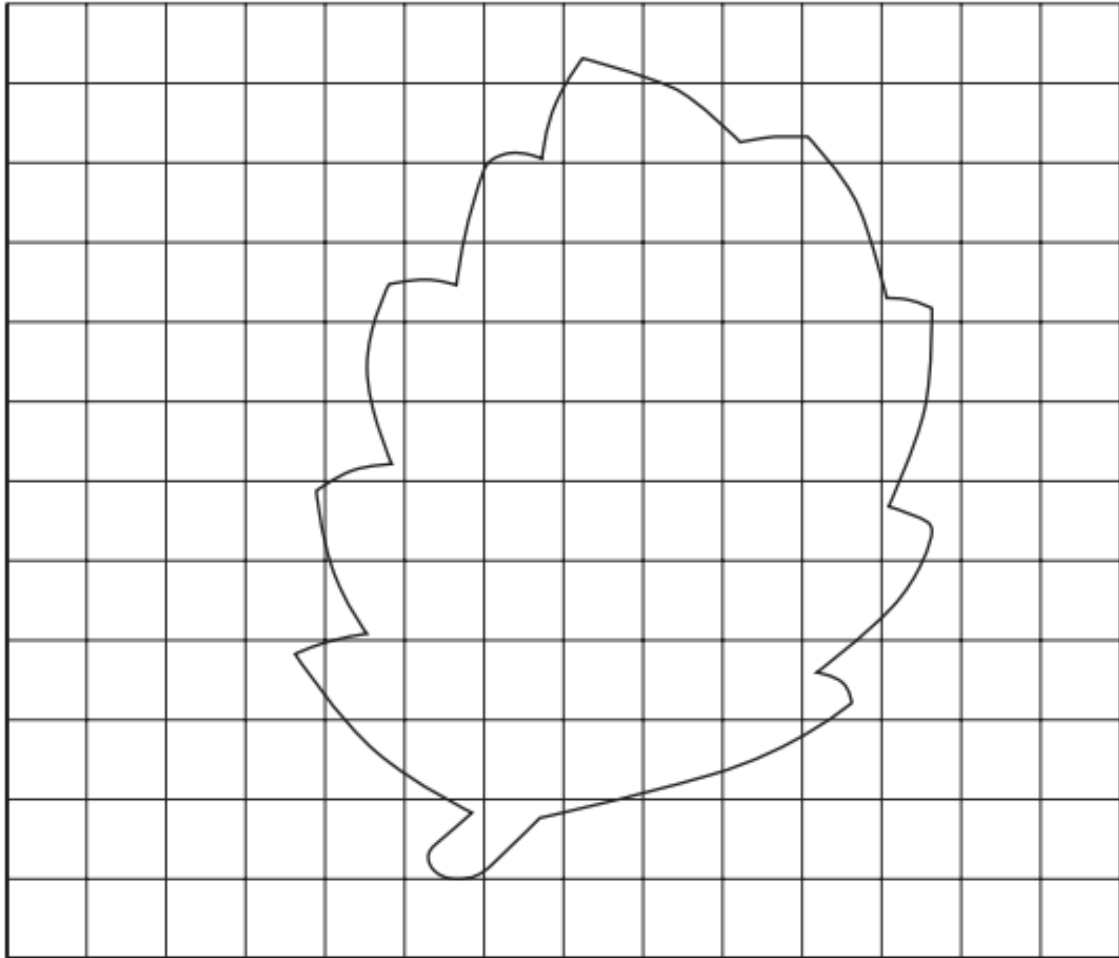
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9.



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

[3]

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Area of the surface of the leaf = .....  $\text{cm}^2$