Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Area

Calculator Allowed

INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

Total Marks :

1) The star shape below is to be used to make a poster for a talent competition.
The star has been drawn on a grid.
Each square on the grid has an area of $1\,cm^2$.
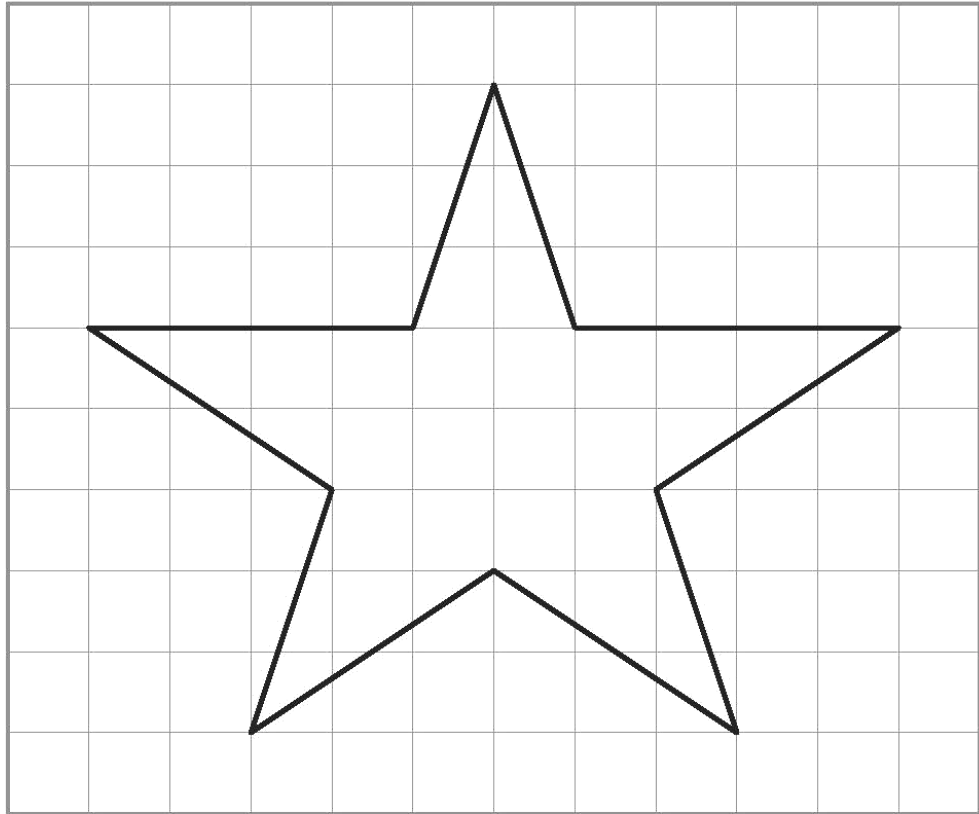
Find the approximate area of the star.

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2) Calculate the area of the following rectangle. [2]

9 cm

13 cm
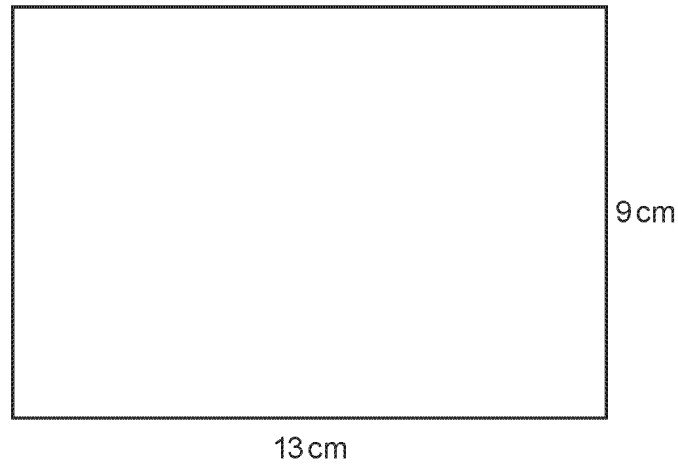
Diagram not drawn to scale

3)

12·6 cm

4·5 cm

3·2 cm
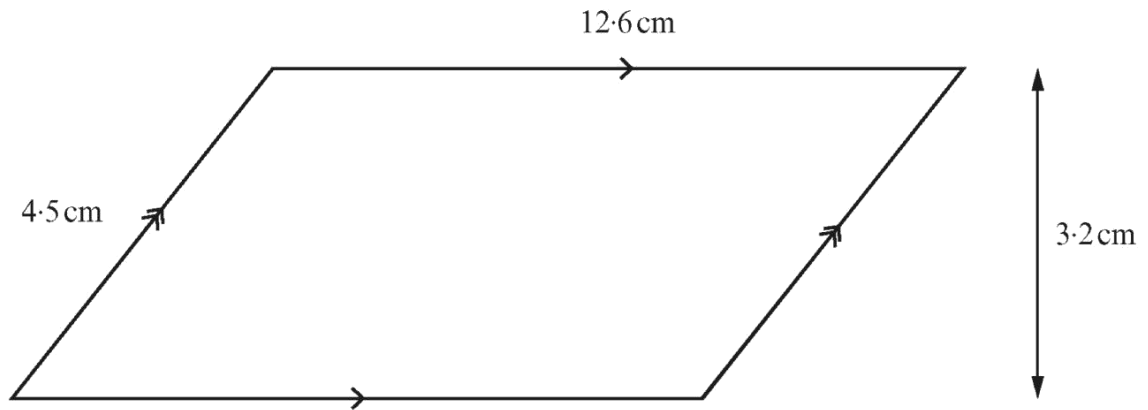
Diagram not drawn to scale

Calculate the area of the parallelogram.

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[2]

4)
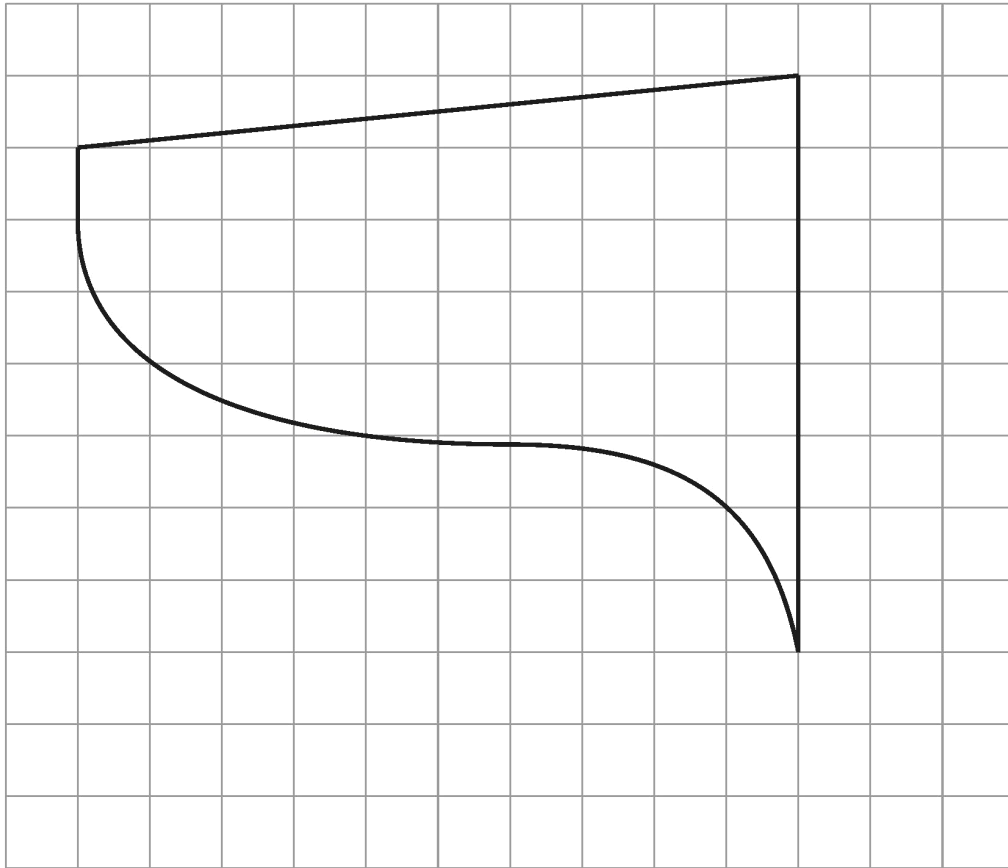
The above shape represents the outline of a field on a map drawn to scale.
Each square on the grid represents $10\,m^2$.
Find an estimate for the area of the field.

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Area of the field = ... m^2

[3]

5) A bird cage is a cuboid with a length 65 cm, breadth 45 cm and height 40 cm.
   Calculate the area of the floor of the cage.

Answer _____ [3]

6)
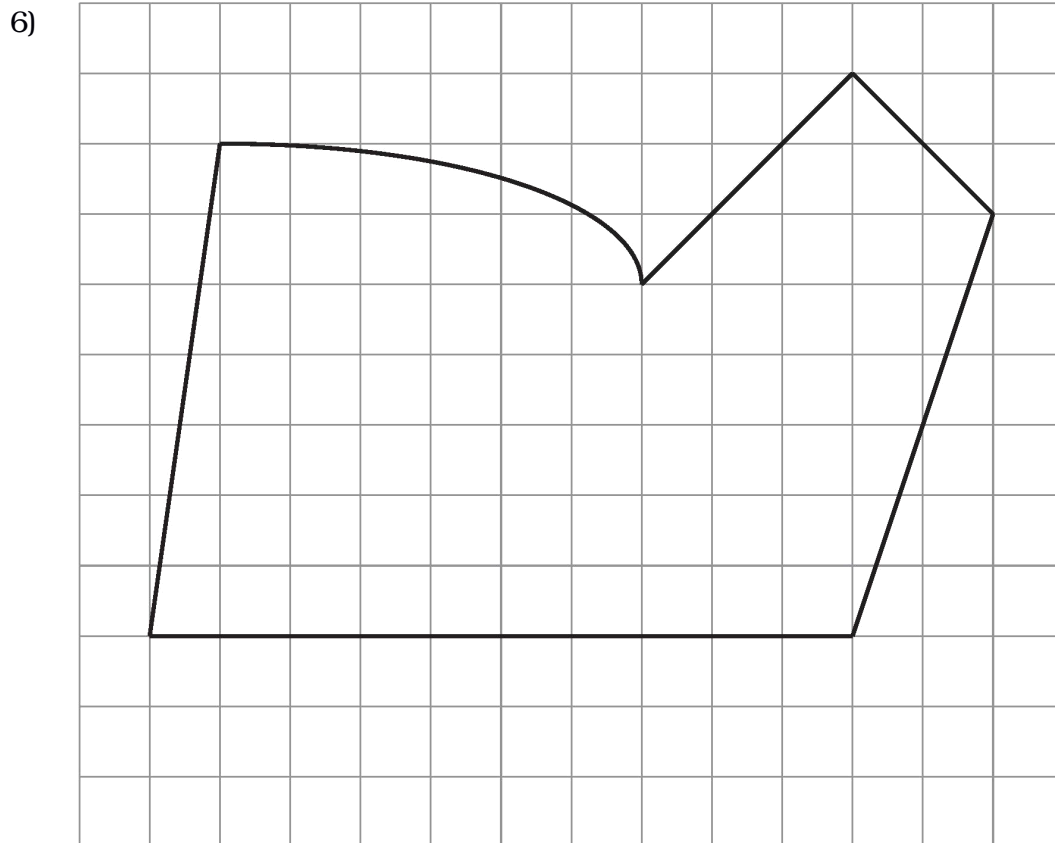
The above shape, drawn on a square grid, represents a field.
Estimate the area of the field if each square represents an area of $5\,m^2$.

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Area of the field = ... m^2

[3]

7) A company wants its logo painted on the side of its main office.
A plan of the logo required is shown below.

2 m

1 m

0·25 m

Each wide strip is 2 metres by 1 metre and is to be painted blue.
Each narrow strip is 0·25 metres by 1 metre and is to be painted orange.

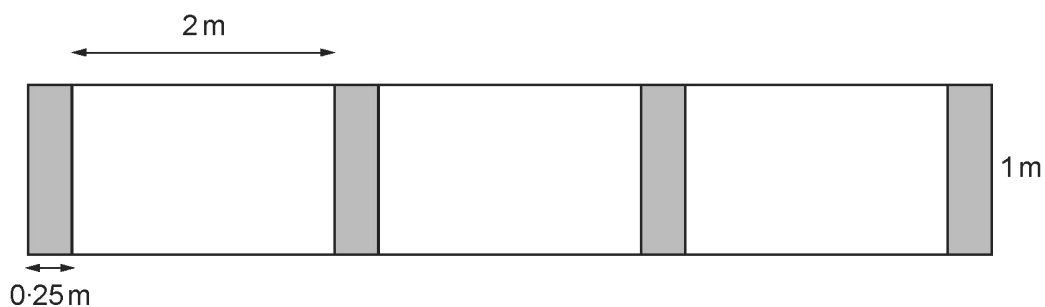(a)   *You will be assessed on the quality of your written communication in this part of the question.*

Calculate the total area of the logo that will be coloured blue **and** the total area that will be coloured orange.
You must show all your working. [6]

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8) The local council decided to lay a $1\frac{1}{2}$ metre wide concrete path around their bowling green, as shown in the diagram.

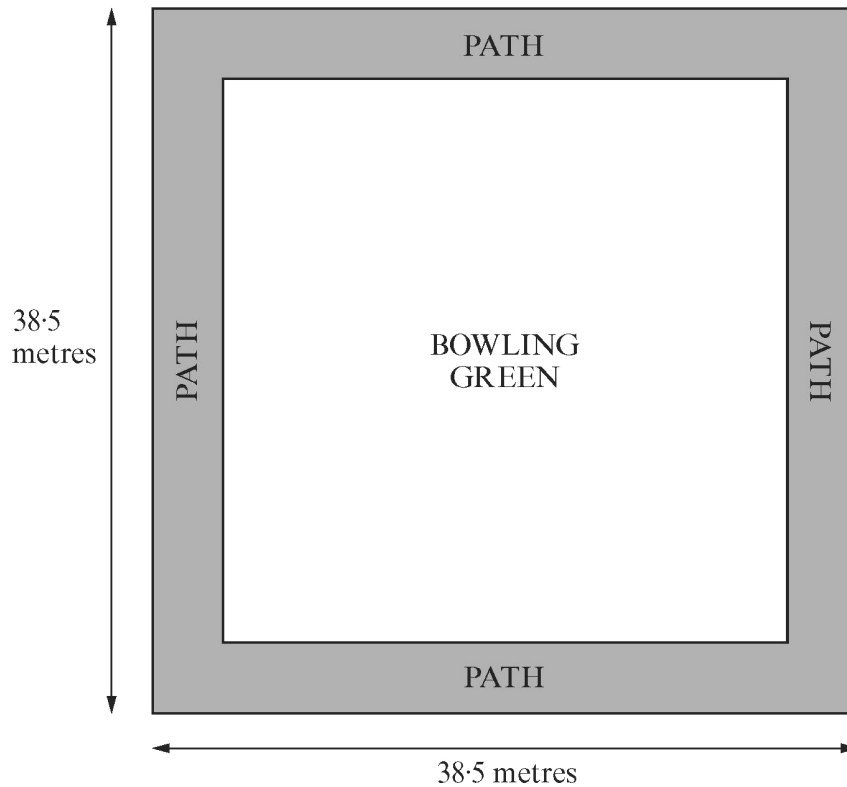*Diagram not drawn to scale*

Calculate the area, in square metres, of the concrete path.

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[6]

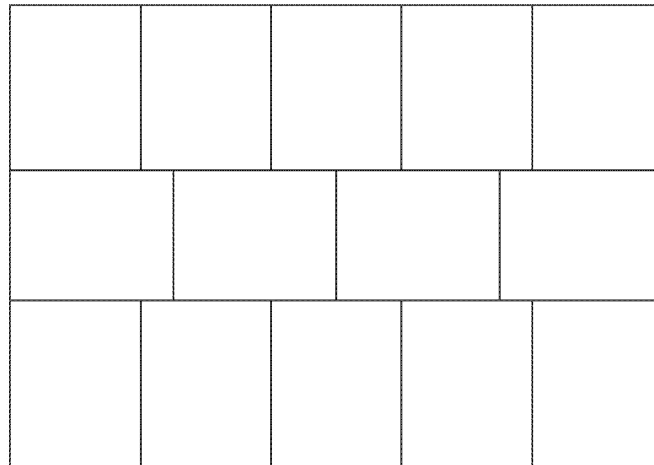9) The diagram below shows the pattern of tiles on a kitchen wall.

Diagram not drawn to scale

Each tile in the pattern is exactly the same.
Each tile has a width of 12 cm.

12 cm

Diagram not drawn to scale

Find the total area of these tiles on the kitchen wall. [5]

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