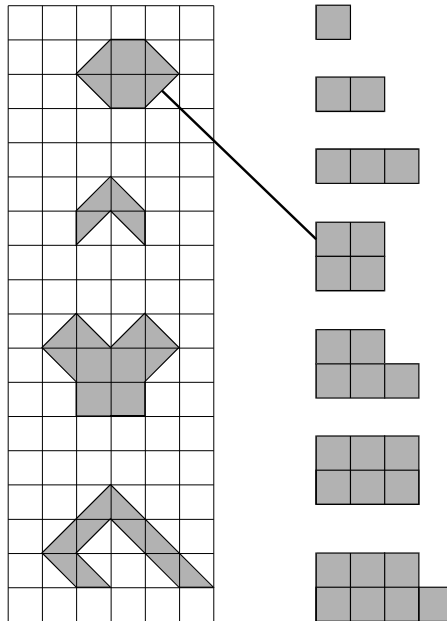


## Area & Perimeter KS2 SATS Standard Worksheet

1. Match each shape on the left to one with **equal area** on the right.

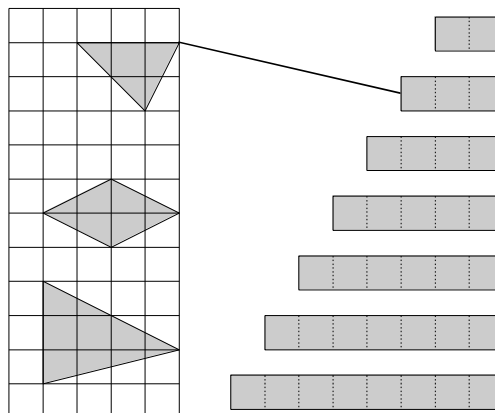
One has been done for you.



2 marks

2. Draw **one line** from each shape to the rectangle which has the **same area**.

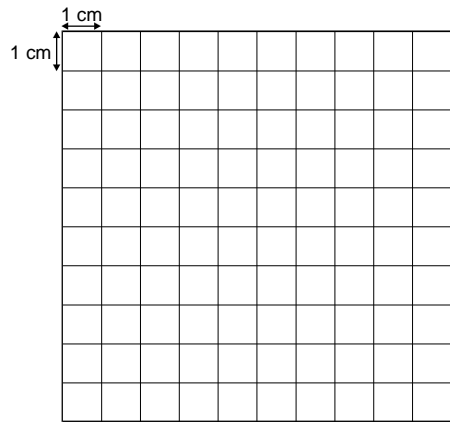
One is done for you.



2 marks

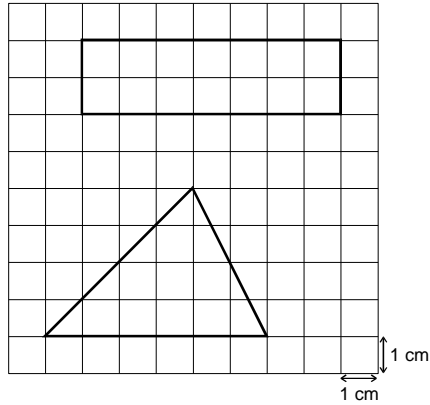
3. Draw a rectangle whose perimeter is 18 centimetres (cm).

You must use the lines of the grid.



1 mark

4.



Work out the area of each shape.

(a) Rectangle

$\text{cm}^2$

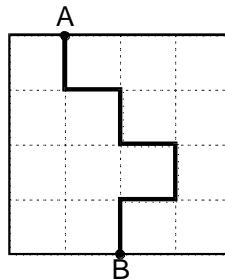
1 mark

(b) Triangle

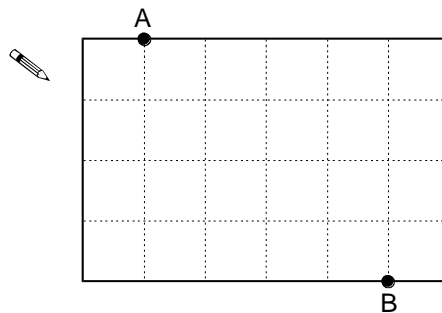
$\text{cm}^2$

1 mark

5. A line starts at **A** and goes along the dotted lines to **B**.  
It divides the area of the grid into **halves**.

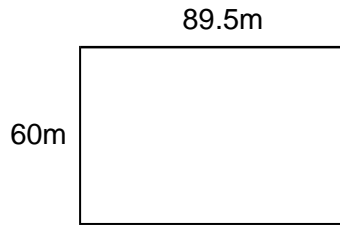


Divide the area of the grid below into **halves**. Start at **A** and go along the dotted lines to **B**.



1 mark

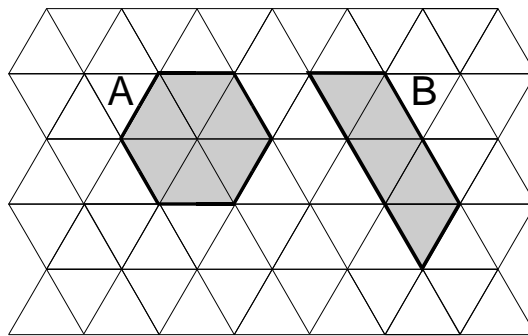
6. A field measures 89.5m by 60m.



What is the perimeter of the field?

1 mark

7. Leon's grid has two shaded shapes.



Leon says,

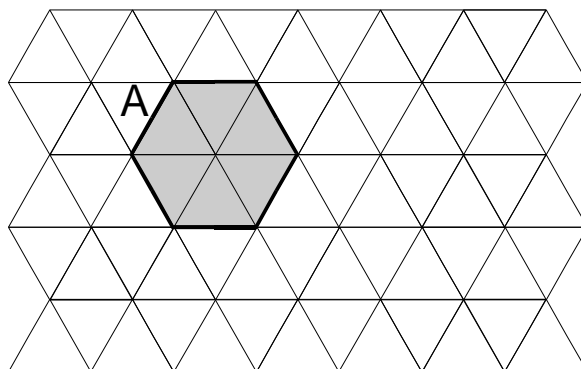
***"Shape A has a larger area than shape B."***

Explain how he could have worked this out.

.....

1 mark

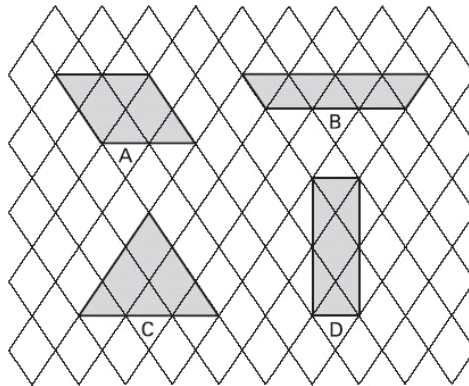
On this grid draw a **different** shape. It **must** have the **same area** as shape A.



1 mark



8. Here are some shapes drawn on a grid.



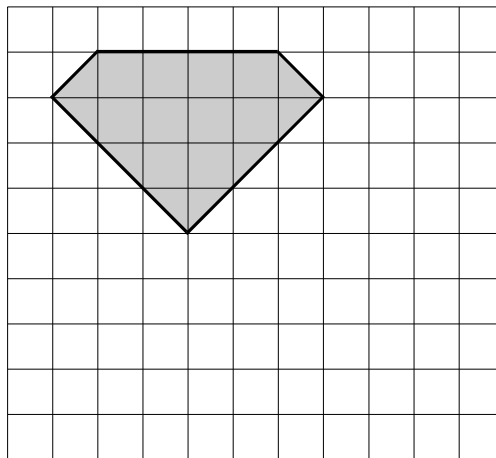
Write the letters of the **two** shapes that are equal in area.

..... and .....

1 mark

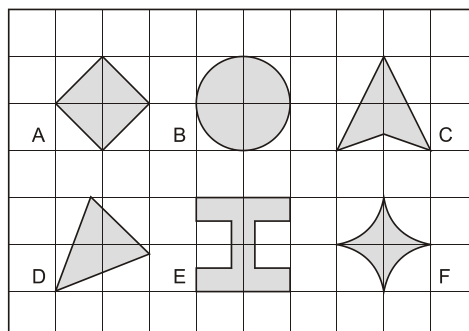
9. On the grid, draw a **rectangle** which has the **same area** as this shaded pentagon.

Use a ruler.



1 mark

10. Here are some shapes on a grid.



Which shape has the **longest perimeter**?

1 mark

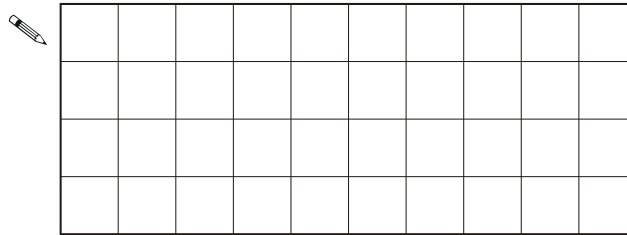
Which shape has the **largest area**?



1 mark

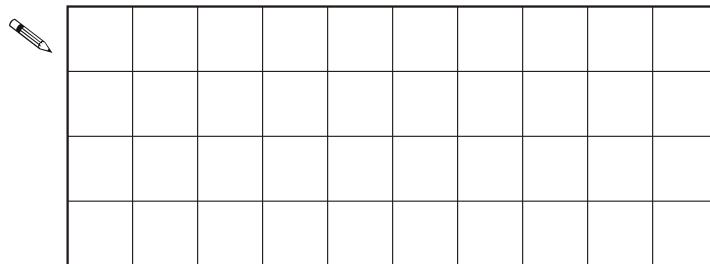
11. Here is a centimetre square grid.

On the grid draw a **shape** which has an **area of 10** square centimetres.



1 mark

On the grid below draw a **rectangle** which has a **perimeter of 10** centimetres.

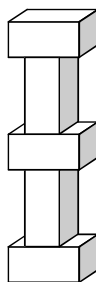
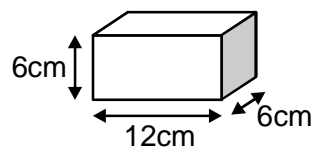


1 mark

12. Martin has some bricks.

They are 12cm long, 6cm high and 6cm deep.

He builds this tower with **five** bricks.

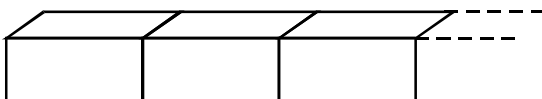


How tall is the tower?

1 mark

Each brick is 12cm long.

Martin makes a line of bricks **132cm long**.

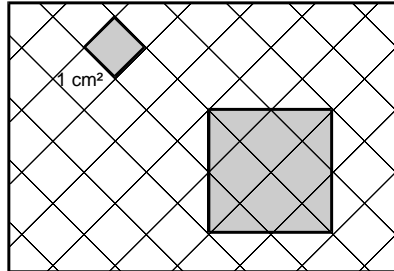


How many bricks does he use?

1 mark

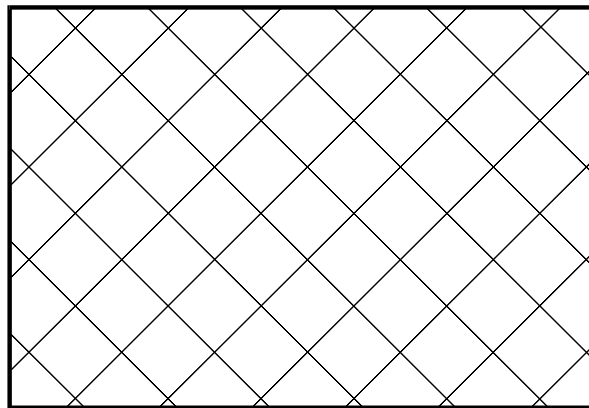
13. The **area** of the **small** shaded square is **1 square centimetre**.

What is the **area** of the **larger** shaded square?




1 mark

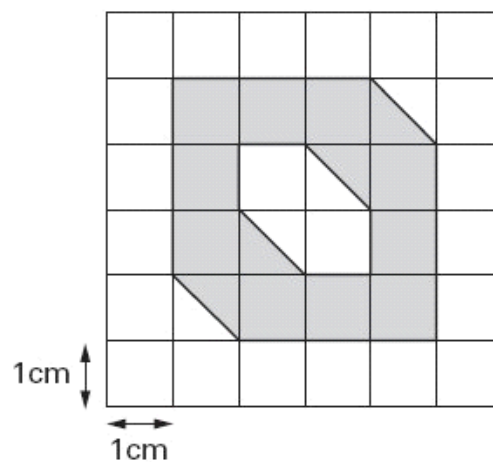
On the grid below, draw a **square** with an **area of 2 cm²**.



1 mark

14. Here is a 1cm square grid.

Some of the grid is shaded.



What is the **area** that is shaded?

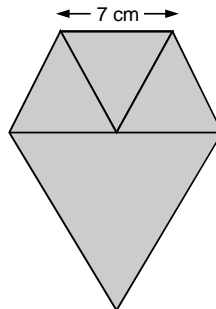
cm<sup>2</sup>

1 mark

15. Lauren has **three small equilateral triangles** and **one large equilateral triangle**.

The small triangles have sides of **7 centimetres**.

Lauren makes this shape.



Not actual size

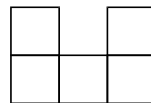
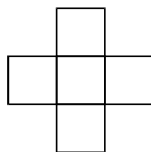
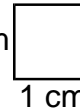
Calculate the **perimeter** of the shape.

Do **not** use a ruler.

cm

1 mark

16. Here are two shapes made with centimetre squares. 1 cm



Each shape has 5 squares.

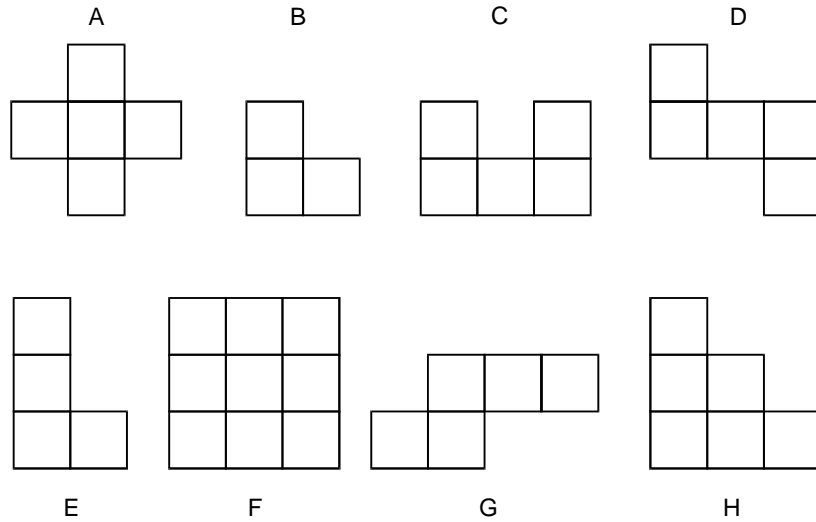
Write **ONE** other thing which is the **same** about the two shapes.

.....

1 mark

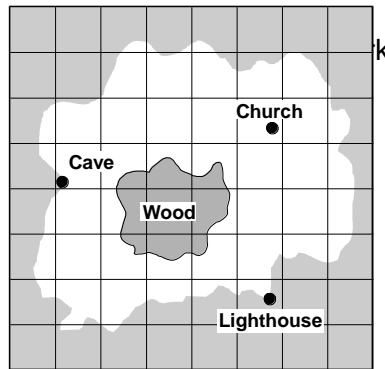
Here are more shapes made with centimetre squares.





17. Which shape has a **perimeter** of 12?  
Here is a map of an island.

Estimate the area of the **Wood**.



squares

1 mark

A boat can safely carry 145 kilograms.



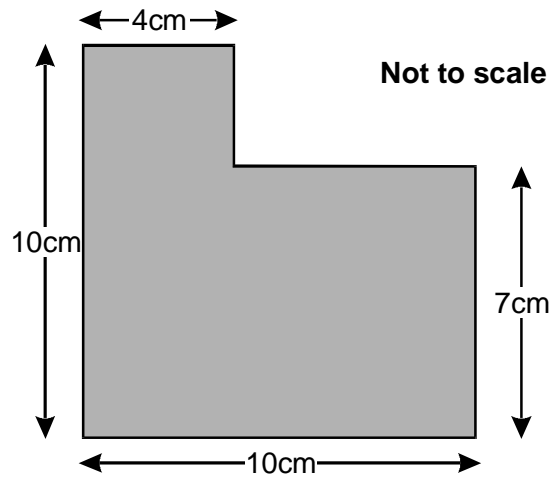
<b>Name</b>	Mary	Ann	John	Bob	Huw	Kate
<b>Weight in kg</b>	59.5	41.1	39.8	80.3	28.2	32.1

Work out if the boat can **safely** carry Mary **and** Bob.

You **must** show your working.

1 mark

18. What is the **area** of this shape?

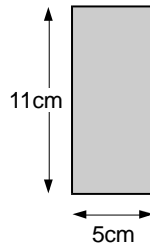


Show your **method**.  
You may get a mark.

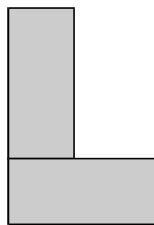
cm<sup>2</sup>

2 marks

19. Liam has two rectangular tiles like this.



He makes this L shape.

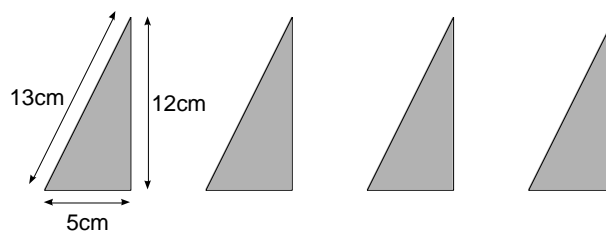


What is the **perimeter** of Liam's L shape?

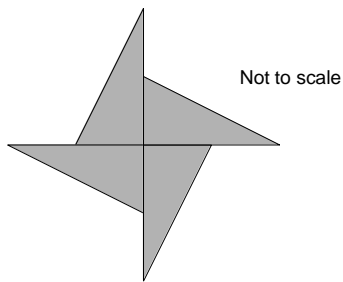
cm

1 mark

20. Lindy has 4 triangles, all the same size.



She uses them to make a star.



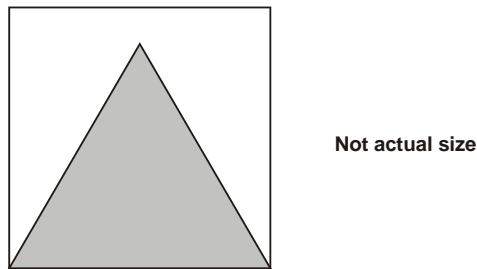
Calculate the **perimeter** of the star.

Show your **method**.  
You may get a mark.

cm

2 marks

21. Here is an equilateral triangle inside a square.



The perimeter of the triangle is 48 centimetres.

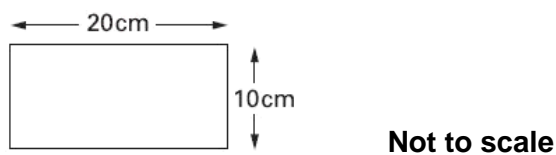
What is the perimeter of the **square**?

Show your **working**.  
You may get a mark.

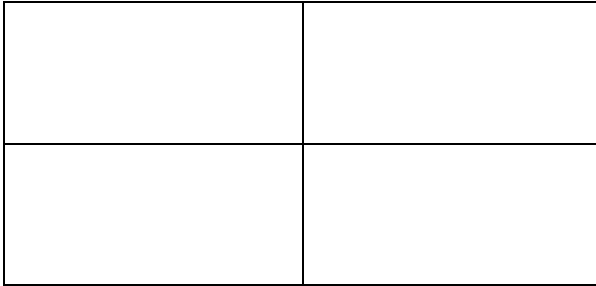
cm

2 marks

22. Rebecca has rectangular tiles like this.



She makes a larger rectangle using 4 of the tiles.

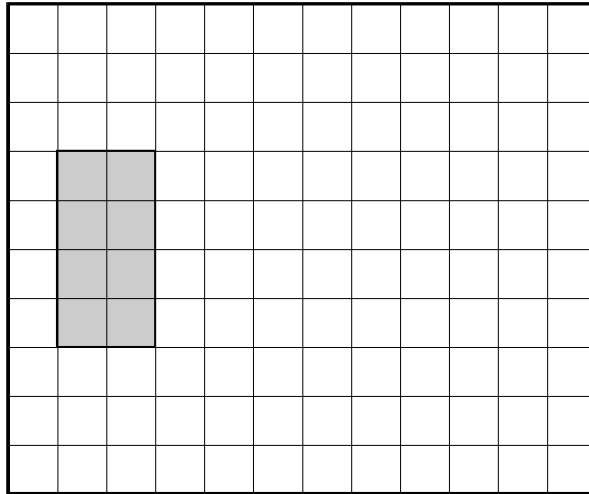


What is the **area** of the larger rectangle?

1 mark

23. On the grid draw a **triangle** with the **same area** as the shaded rectangle.

Use a ruler.

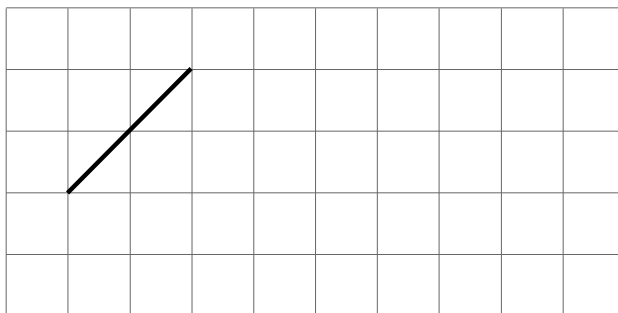


1 mark

24. This is a centimetre grid.

Draw **3 more lines** to make a **parallelogram** with an **area of 10cm<sup>2</sup>**

Use a ruler.

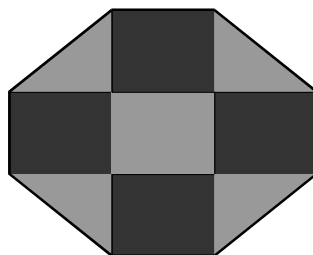


1 mark

25. This plan of a garden is made of rectangles and triangles.

The area of each **rectangle** is **12 square metres**.

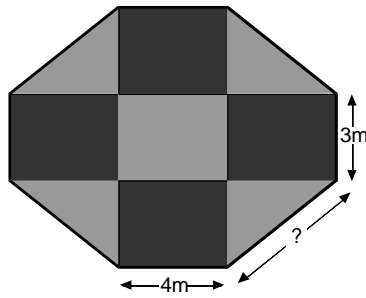
What is the **area** of the **whole garden**?



1 mark

The **perimeter** of the garden is **34 metres**.

What is the length of the **longest side** of each triangle?

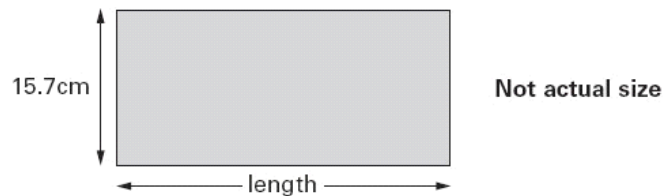


Show your **working**.  
You may get a mark

m

2 marks

26. Here is a rectangle with a width of 15.7 centimetres.



The **perimeter** of this rectangle is 85 centimetres.

Calculate the length of the rectangle.

Show your **method**.  
You may get a mark.

cm

2 marks