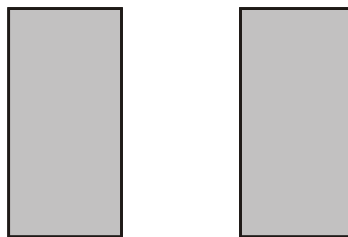


1. The perimeter of a square is 72 centimetres.



Not actual size

The square is cut in half to make two identical rectangles.



What is the perimeter of **one** rectangle?



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

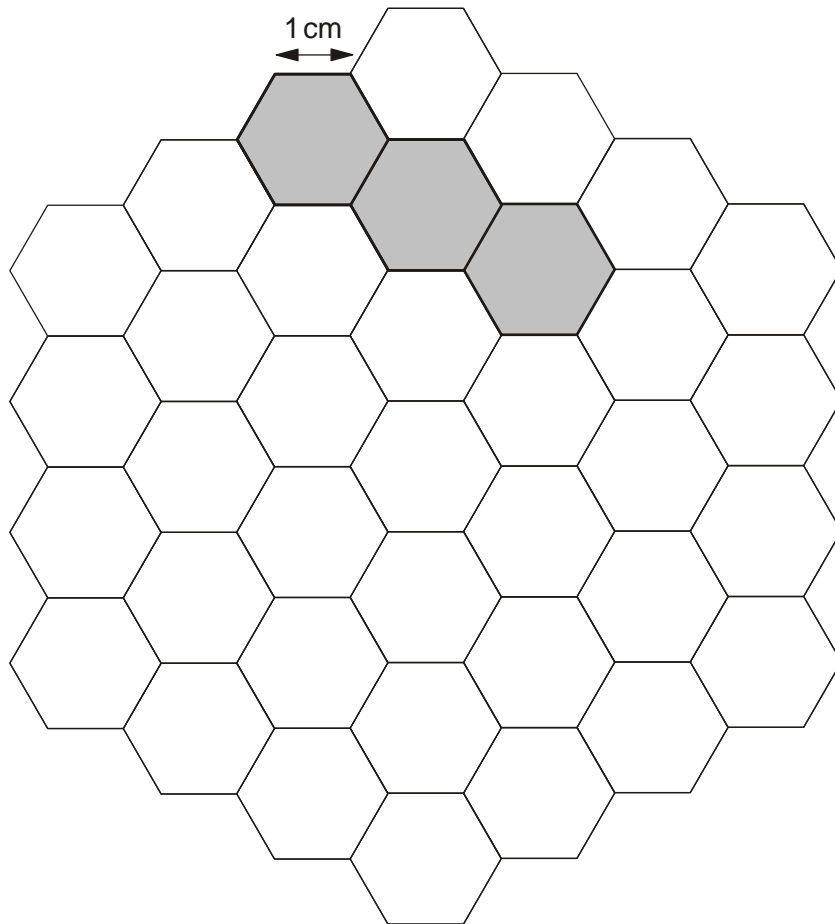
A large empty rectangular box with a black outline, intended for the student to show their method for calculating the perimeter of one rectangle. A smaller rectangle with the label 'cm' is positioned in the bottom right corner of this box.

2 marks

2. Here is a grid of regular hexagons.

The shaded shape has an area of 3 hexagons and a perimeter of 14cm.

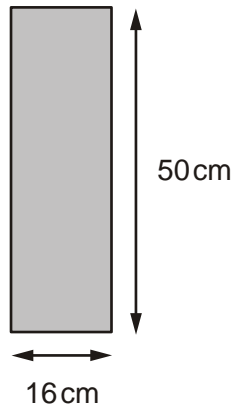
Draw another shape on the grid which has an **area** of 4 hexagons and a **perimeter** of 14cm.



1 mark

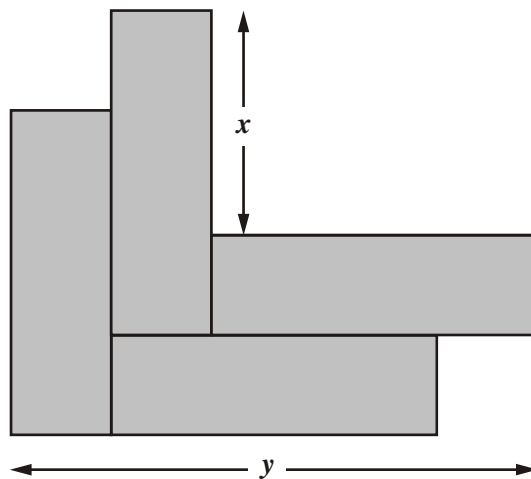
3. Kate has some rectangles.

They each measure 16 centimetres by 50 centimetres.



Not actual size

She makes this design with four of the rectangles.



Work out the lengths x and y .



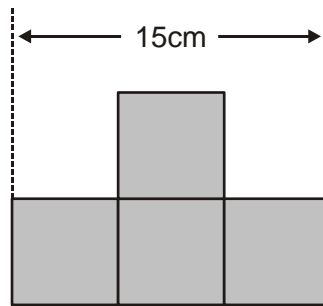
$x =$ cm

1 mark

$y =$ cm

1 mark

4. This shape is made from 4 shaded squares.



Not
actual size

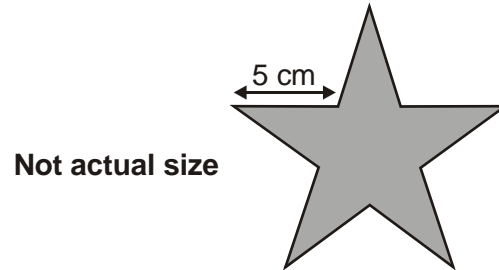
Calculate the perimeter of the shape.

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

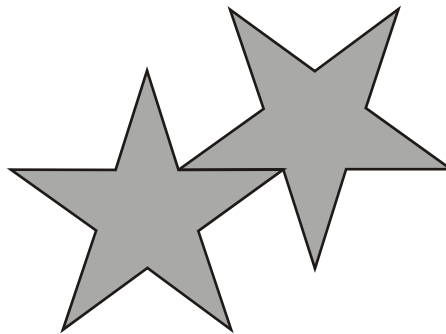
cm

2 marks


5. Millie has some star-shaped tiles.
Each edge of a tile is 5 centimetres long.



She puts two tiles together to make this shape.



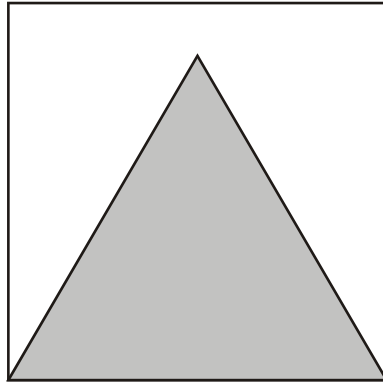
Work out the perimeter of Millie's shape.



cm

1 mark

6. Here is an equilateral triangle inside a square.



Not actual size

The perimeter of the triangle is 48 centimetres.

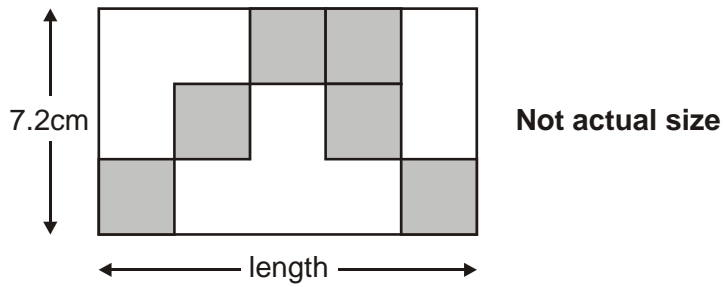
What is the perimeter of the **square**?

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

cm

2 marks

7. Here is a rectangle with six identical shaded squares inside it.



The width of the rectangle is **7.2 centimetres**.

Calculate the **length** of the rectangle.

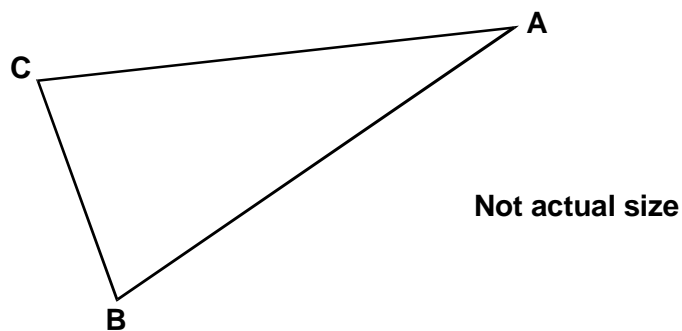
Show your **method**.
You may get a mark.

cm

2 marks

8. Triangle **ABC** is isosceles and has a perimeter of 20 centimetres.

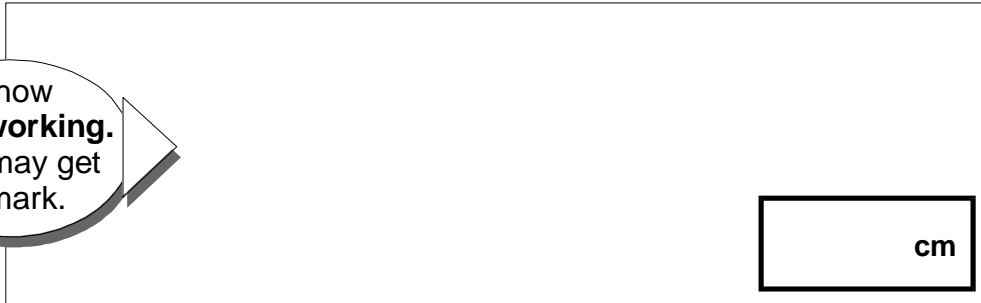
Sides **AB** and **AC** are each twice as long as **BC**.



Calculate the length of the side **BC**.

Do **not** use a ruler.

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

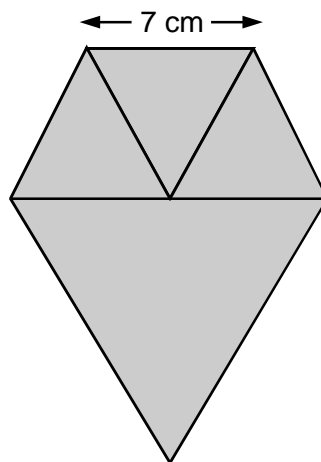


2 marks

9. 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

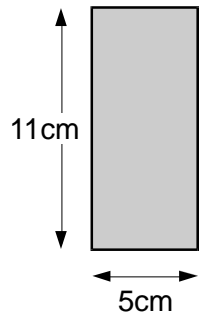
Calculate the **perimeter** of the shape.

Do **not** use a ruler.

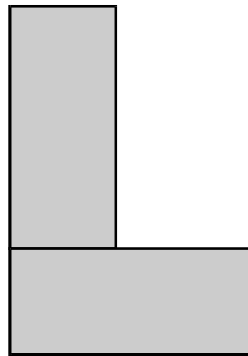
 cm

1 mark


10. Liam has two rectangular tiles like this.



He makes this L shape.

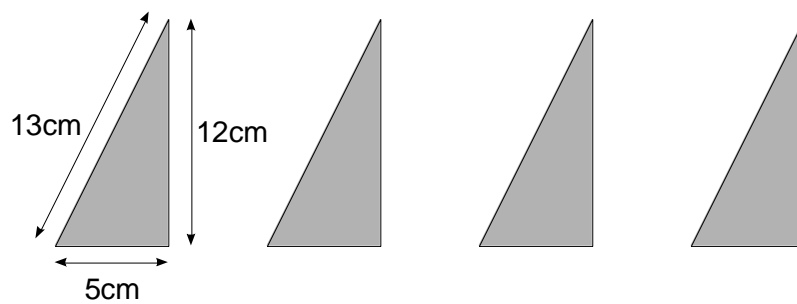


What is the **perimeter** of Liam's L shape?

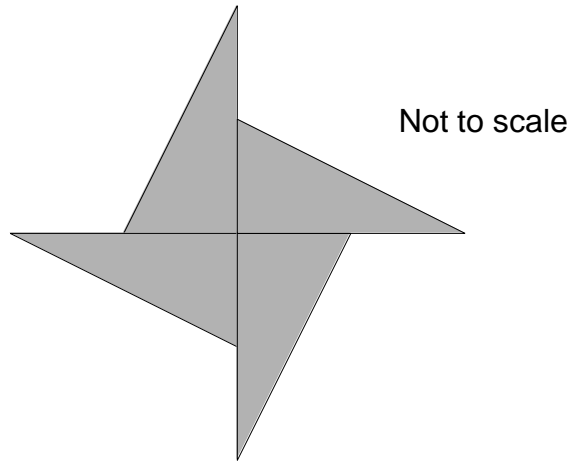
 cm

1 mark


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



She uses them to make a star.



Calculate the **perimeter** of the star.

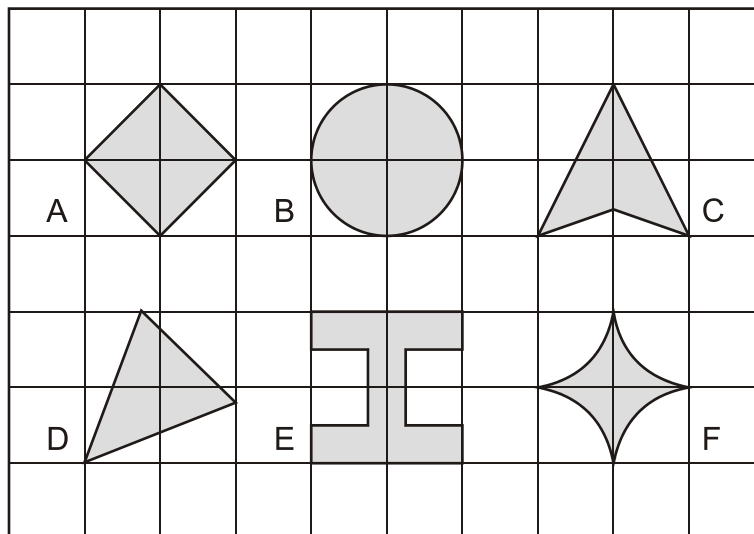


Show
your **method**.
You may get
a mark.

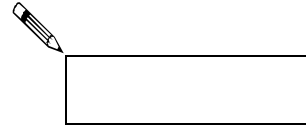
cm

2 marks

12. Here are some shapes on a grid.

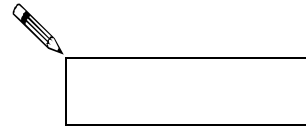


Which shape has the **longest perimeter**?



1 mark

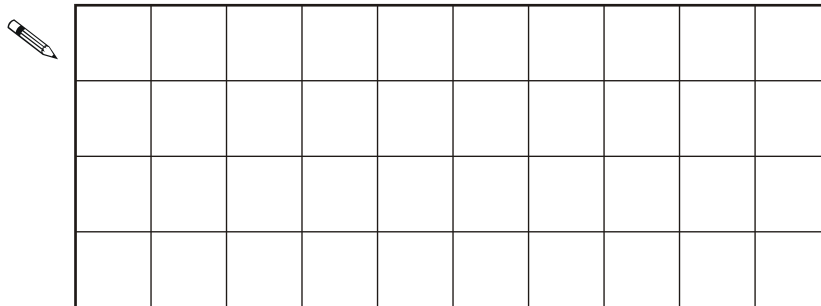
Which shape has the **largest area**?



1 mark

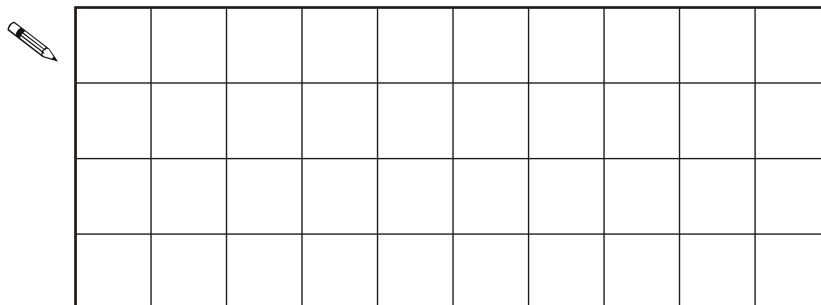
13. Here is a centimetre square grid.

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