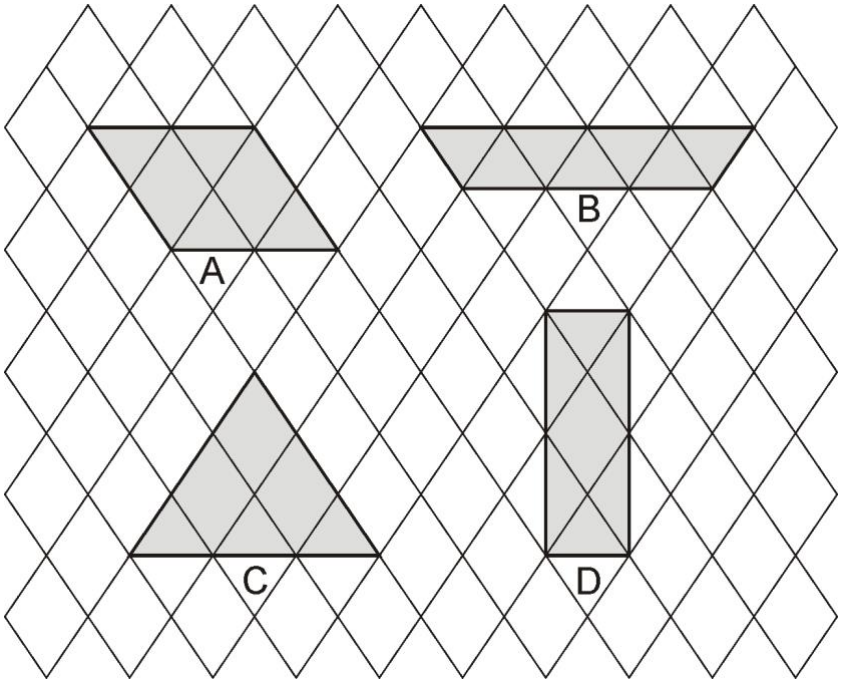
Q1.

Here are some shapes drawn on a grid.



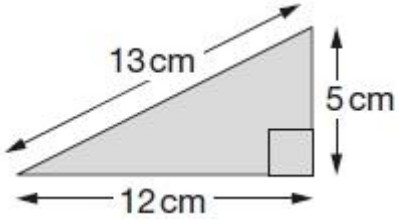
Write the letters of the **two** shapes that are equal in area.

_____ and _____

1 mark

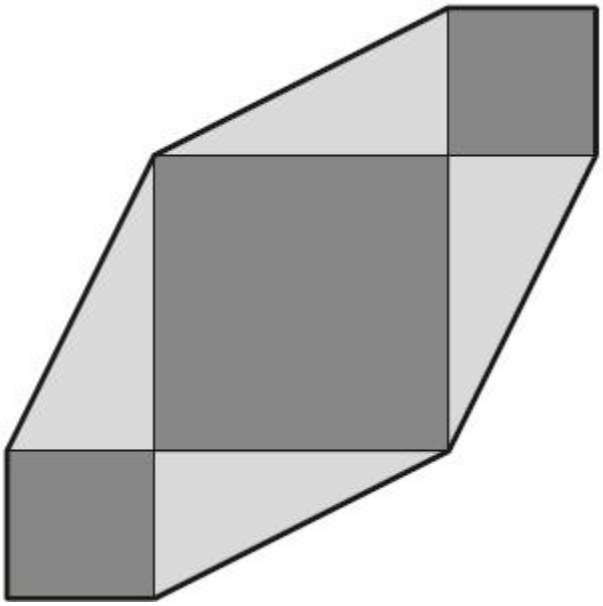
Q2.

Chen has some right-angled triangular tiles.



Not actual size

He makes this shape with four of his triangular tiles and three square tiles.



Not actual size

What is the **perimeter** of Chen's shape?

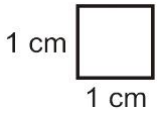
Show your method

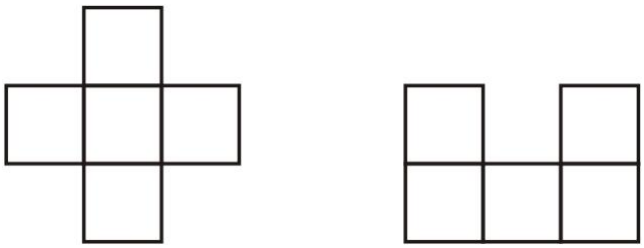
cm

2 marks

Q3.

Here are two shapes made with centimetre squares.





Each shape has 5 squares.

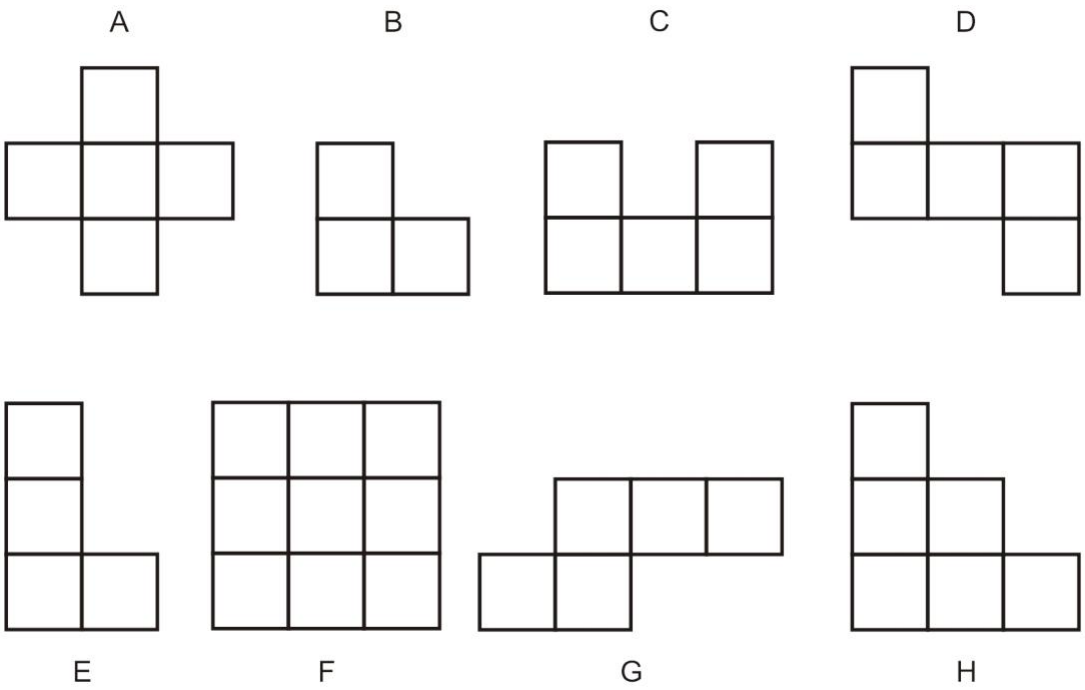
Write **ONE** other thing which is the **same** about the two shapes.

_____

_____

1 mark

Here are more shapes made with centimetre squares.

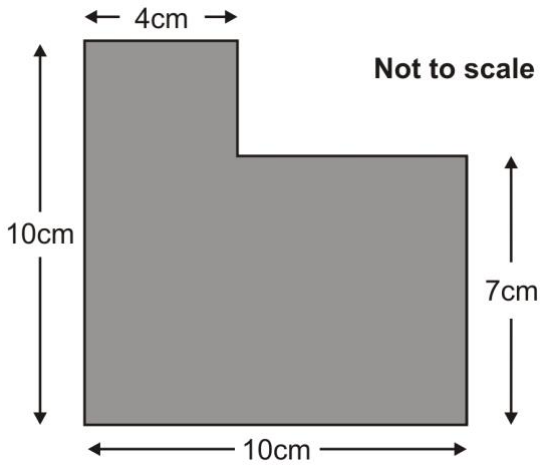


Which shape has a **perimeter** of 10 cm?

1 mark

Q4.

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



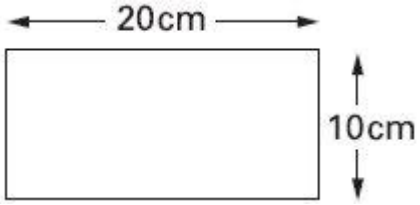
Show your method

cm²

2 marks

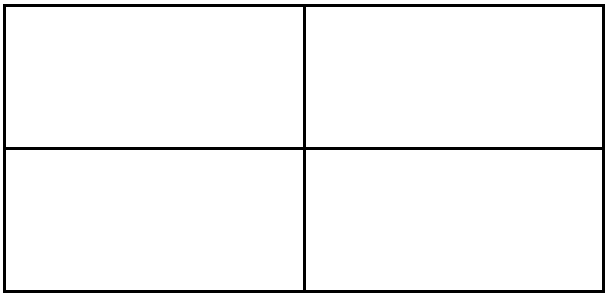
Q5.

Rebecca has rectangular tiles like this.



Not to scale

She makes a larger rectangle using 4 of the tiles.



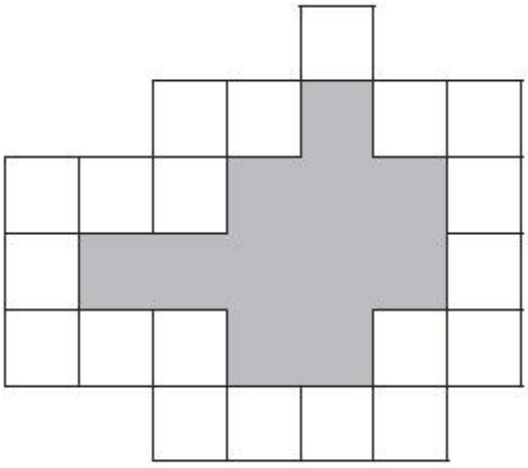
What is the **area** of the larger rectangle?

cm²

1 mark

Q6.

Here is a set of 20 squares around a shaded space.



What is the area of the shaded space?

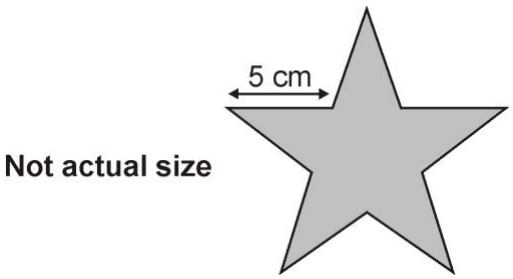
squares

1 mark

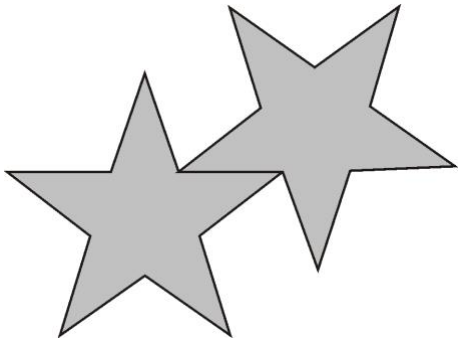
Q7.

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.

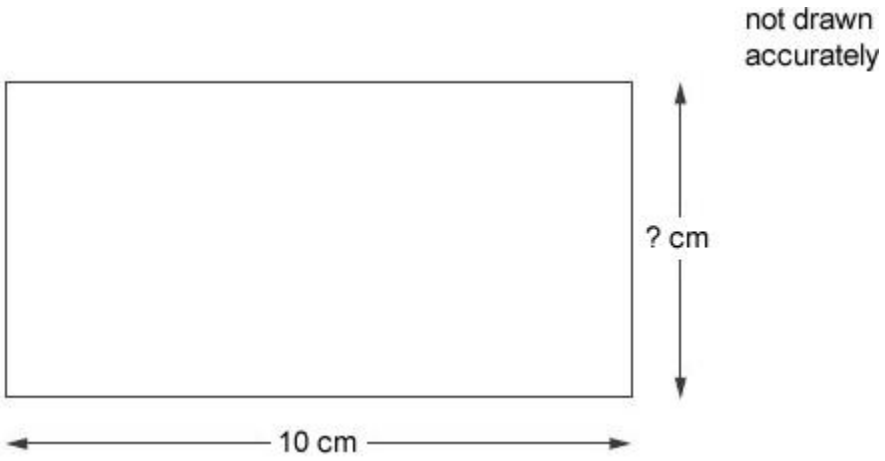
cm

1 mark

Q8.

Grace and Ben each drew a rectangle with a perimeter of 28 cm.

Ben's rectangle was 10 cm long.



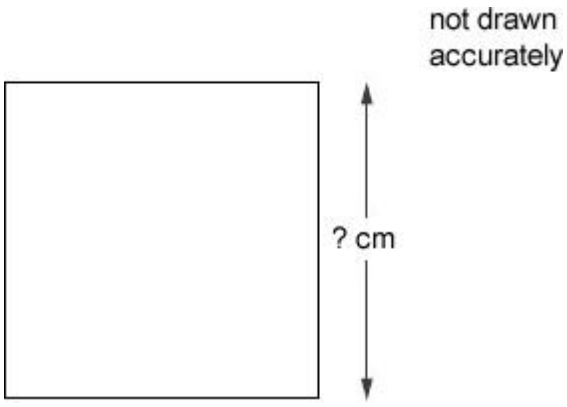
How wide was his rectangle?

cm

1 mark

Grace's rectangle was a square.

It also had a perimeter of 28 cm.



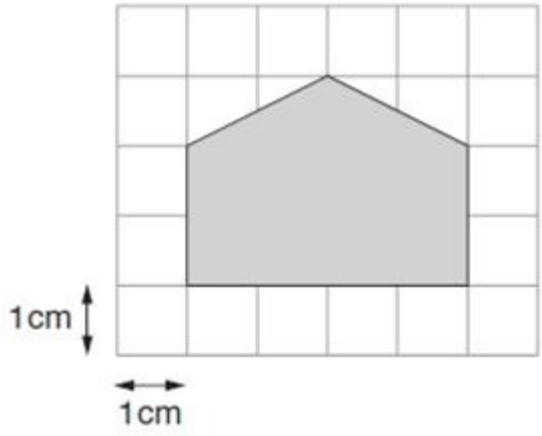
What is the side length of her square?

cm

1 mark

Q9.

Here is a shaded shape on a 1 cm square grid.



What is the **area** of the shaded shape?

cm²

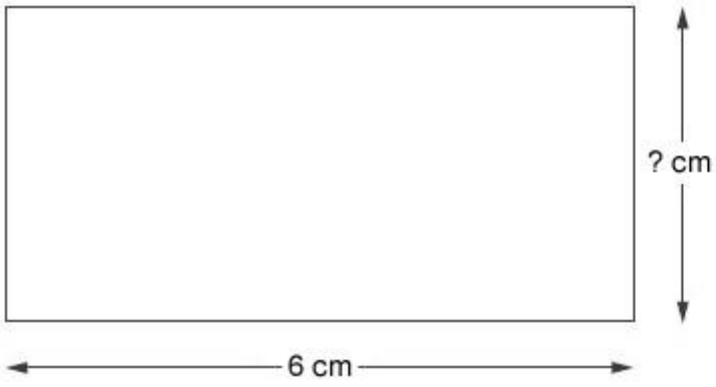
1 mark

Q10.

The **perimeter** of this rectangle is 20 cm.

The **length** is 6 cm.

not to scale



How long is the **width** of the rectangle?

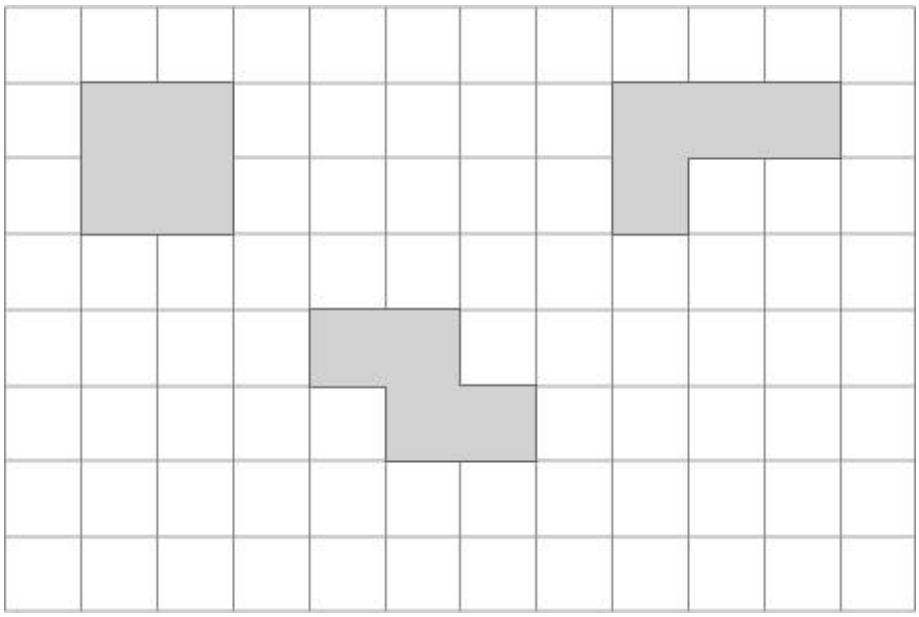
cm

1 mark

Q11.

Rose made shapes using four squares.

She calculated the perimeter of each shape.



What is the length of the **shortest** perimeter?

units

1 mark

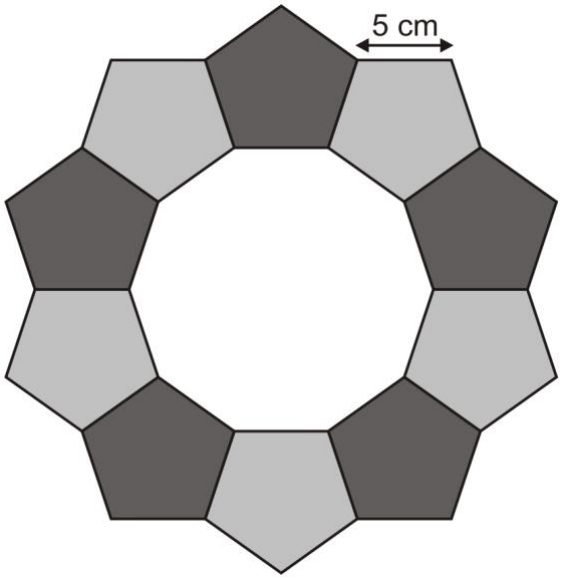
What is the length of the **longest** perimeter?

units

1 mark

Q12.

This ring is made of **regular pentagons,** with sides of **5 centimetres.**



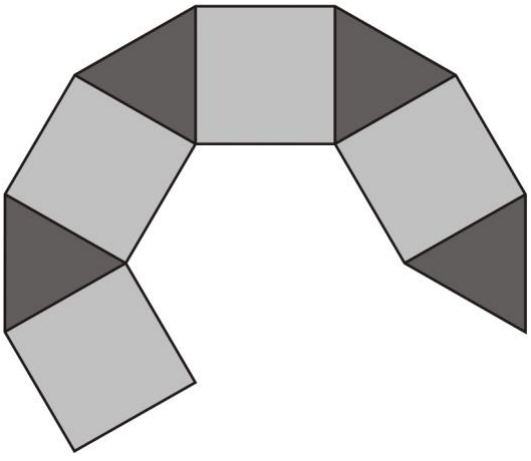
What is the **length** of the **outer edge** of the ring?

cm

1 mark

Here is part of a new ring.

It is made of **squares** and **triangles.**



The pattern is continued to complete the ring.

What is the **total** number of **squares** used in the complete ring?

1 mark

Q13.

not actual size

Calculate the perimeter of this square.

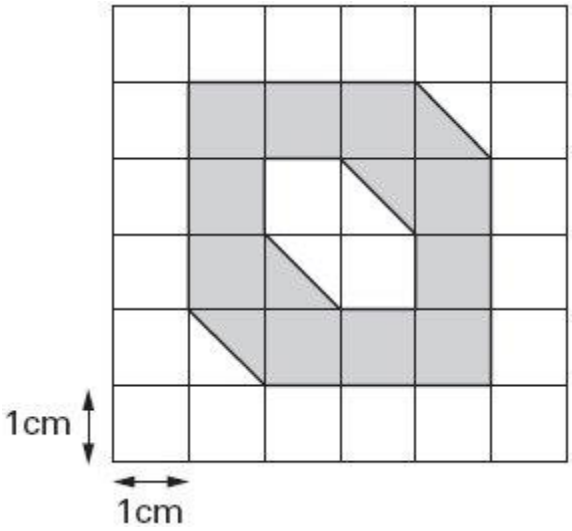
cm

1 mark

Q14.

Here is a 1cm square grid.

Some of the grid is shaded.



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

cm^2

1 mark