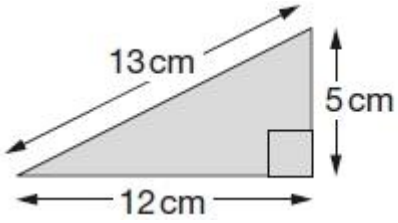
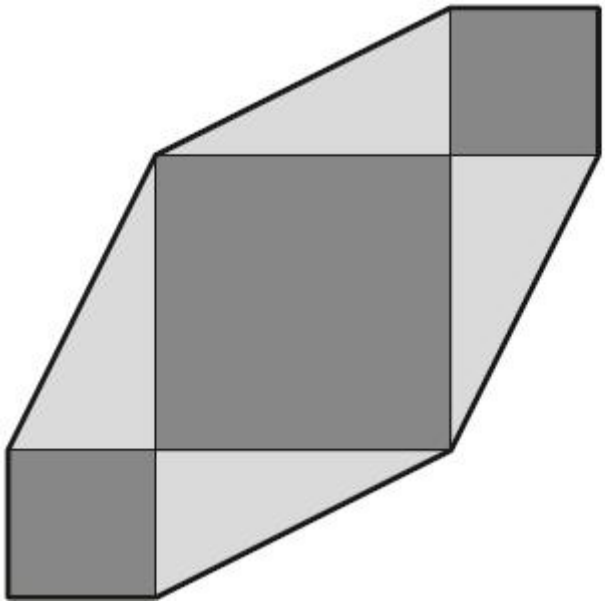
Q1.

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

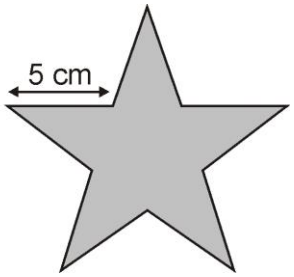
cm

2 marks

Q2.

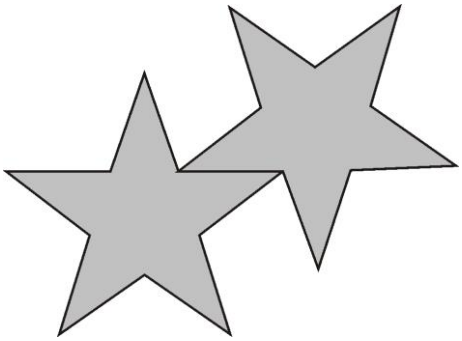
Millie has some star-shaped tiles.

Each edge of a tile is 5 centimetres long.



Not actual size

She puts two tiles together to make this shape.



Work out the perimeter of Millie's shape.

cm

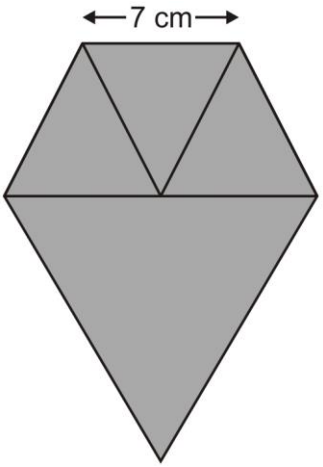
1 mark

Q3.

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.

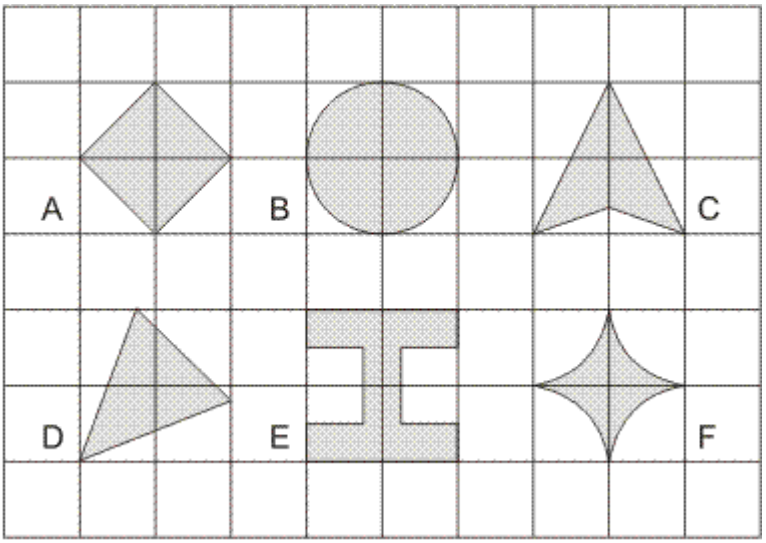
Do **not** use a ruler.

cm

1 mark

Q4.

Here are some shapes on a grid.



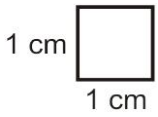
Which shape has the **longest perimeter**?

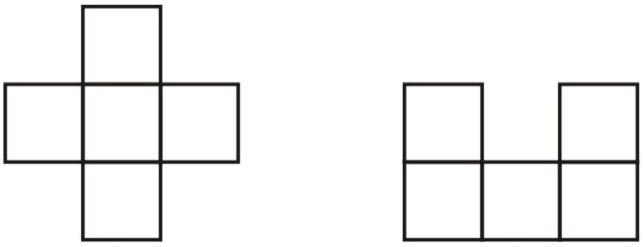
1 mark

Which shape has the **largest area**?

1 mark

Q5. Here are two shapes made with centimetre squares.





Each shape has 5 squares.

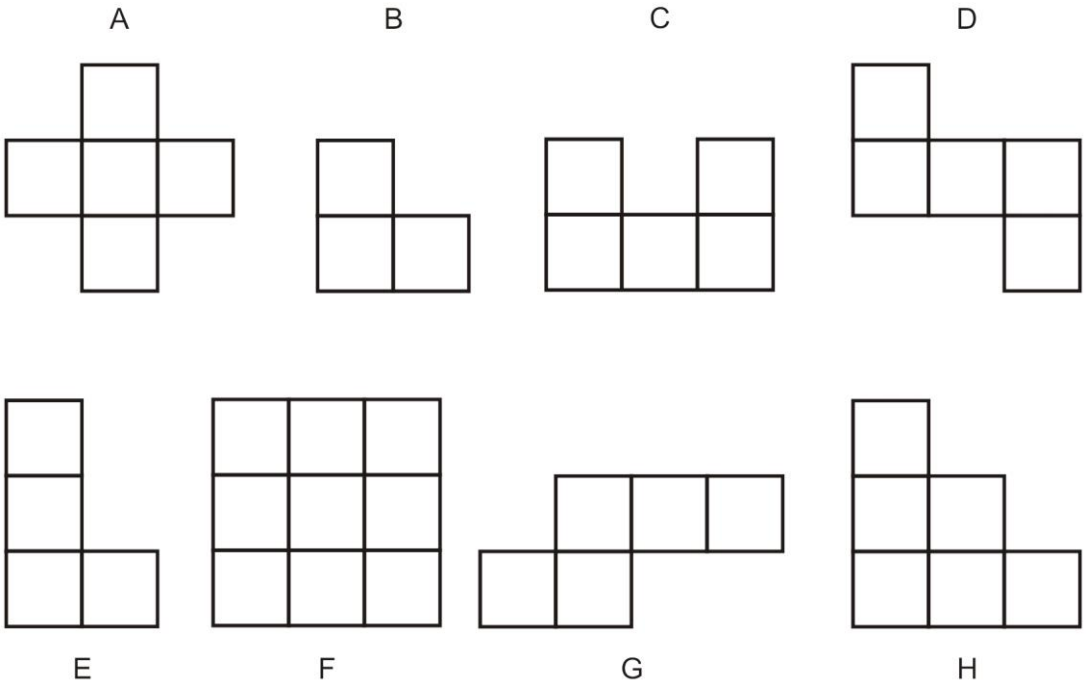
Write **ONE** other thing which is the **same** about the two shapes.

_____

_____

1 mark

Here are more shapes made with centimetre squares.

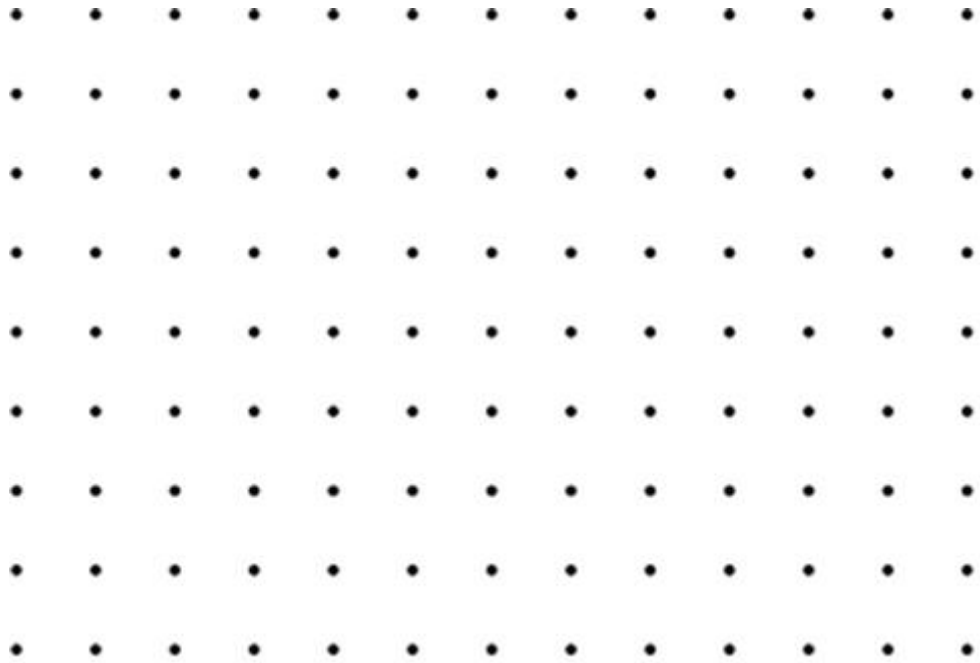


Which shape has a **perimeter** of 10 cm?

1 mark

Q6.

Join the dots to draw a rectangle that has an **area** of 20 cm^2 and a **perimeter** of 18 cm.



1 mark

Q7.

A rectangle has an area of 36 cm^2

How long could the sides of the rectangle be?

Give three different examples, using whole numbers.

..... cm and ..... cm

..... cm and ..... cm

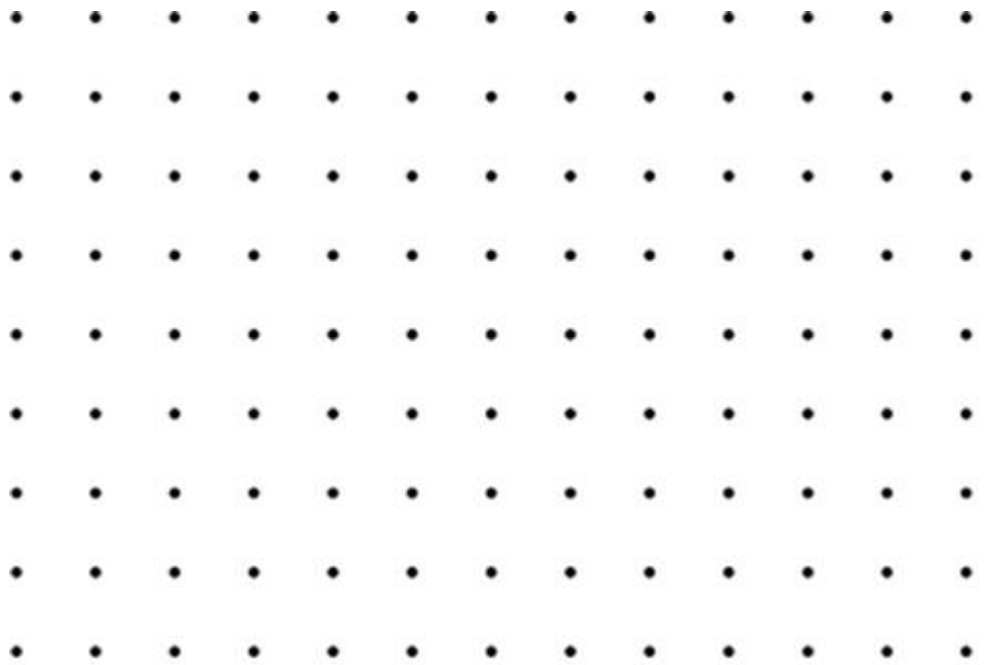
..... cm and ..... cm

2 marks

Q8.

Grace has a rectangle with sides of 4 cm and 5 cm.

Draw a different rectangle that has the same perimeter.



1 mark

Q9.

What is the **perimeter** of a square with an area of 64 cm^2?

cm

1 mark

Now give an example of another rectangle with an area of 64 cm^2 but a different perimeter.

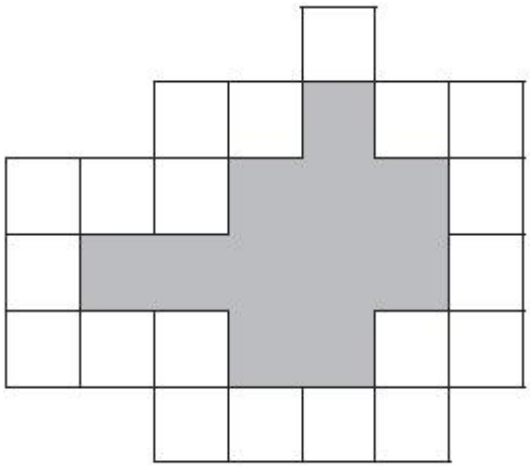
length =

width =

1 mark

Q10.

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



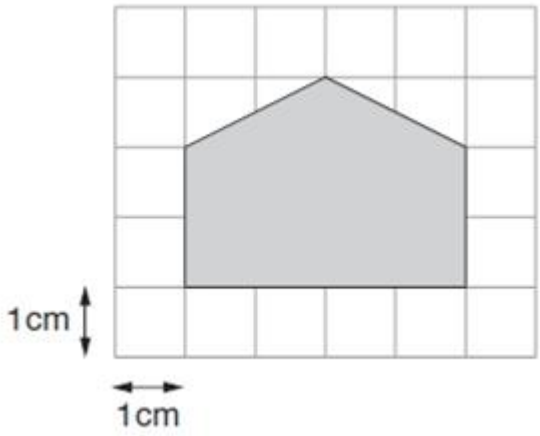
What is the area of the shaded space?

squares

1 mark

Q11.

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



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

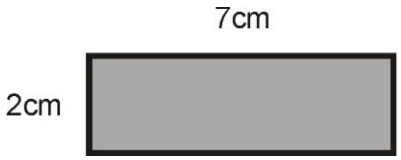
cm^2

1 mark

Q12.

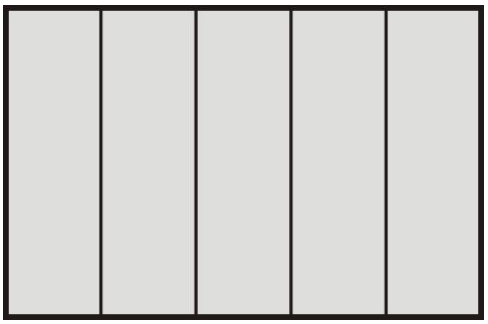
Lara has some identical rectangles.

They are 7 centimetres long and 2 centimetres wide.



Not actual size

She uses **five** of her rectangles to make the large rectangle below.



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

cm

1 mark

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

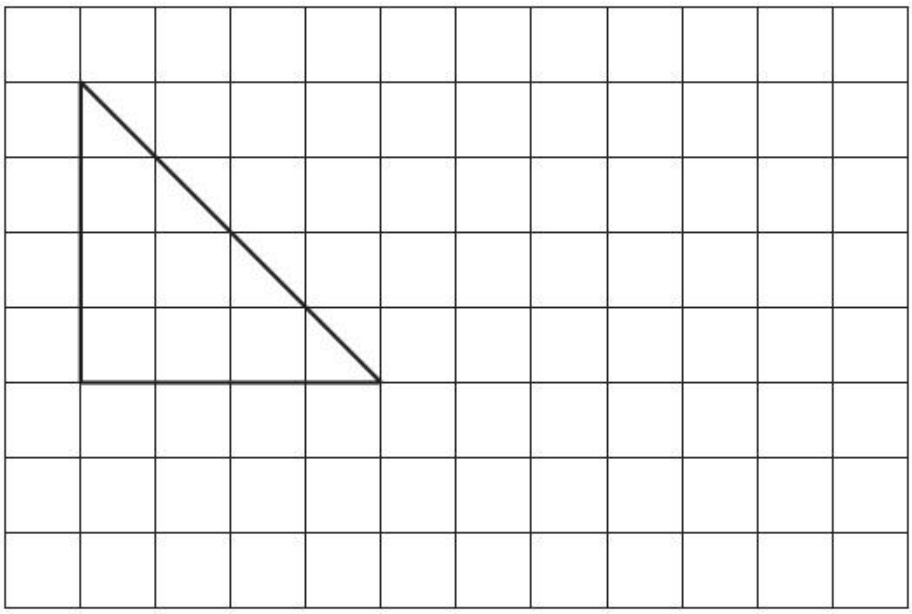
cm

1 mark

Q13. Here is a triangle drawn on a square grid.

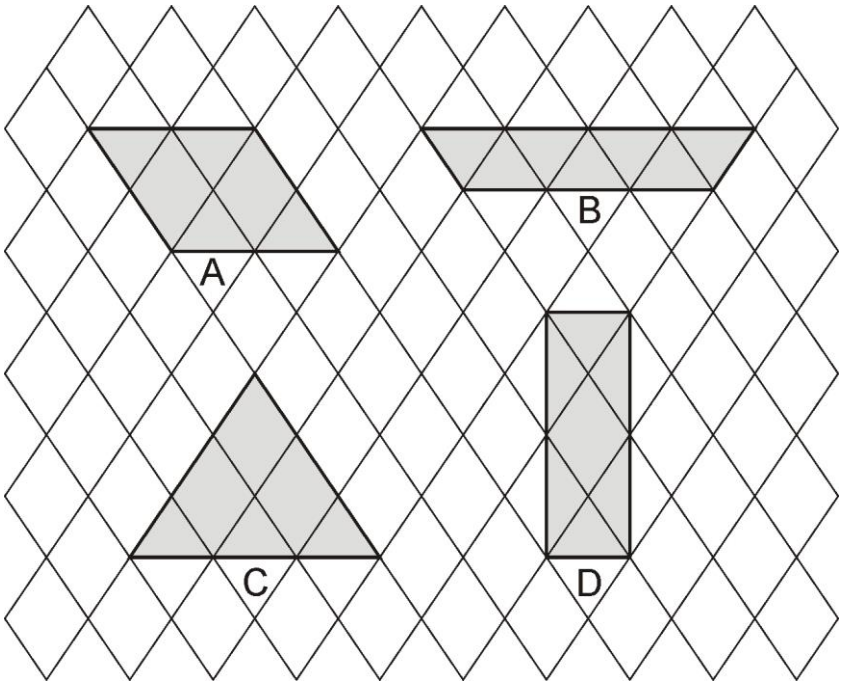
Draw a **rectangle** on the grid with the same area as the triangle.

Use a ruler.



1 mark

Q14. Here are some shapes drawn on a grid.



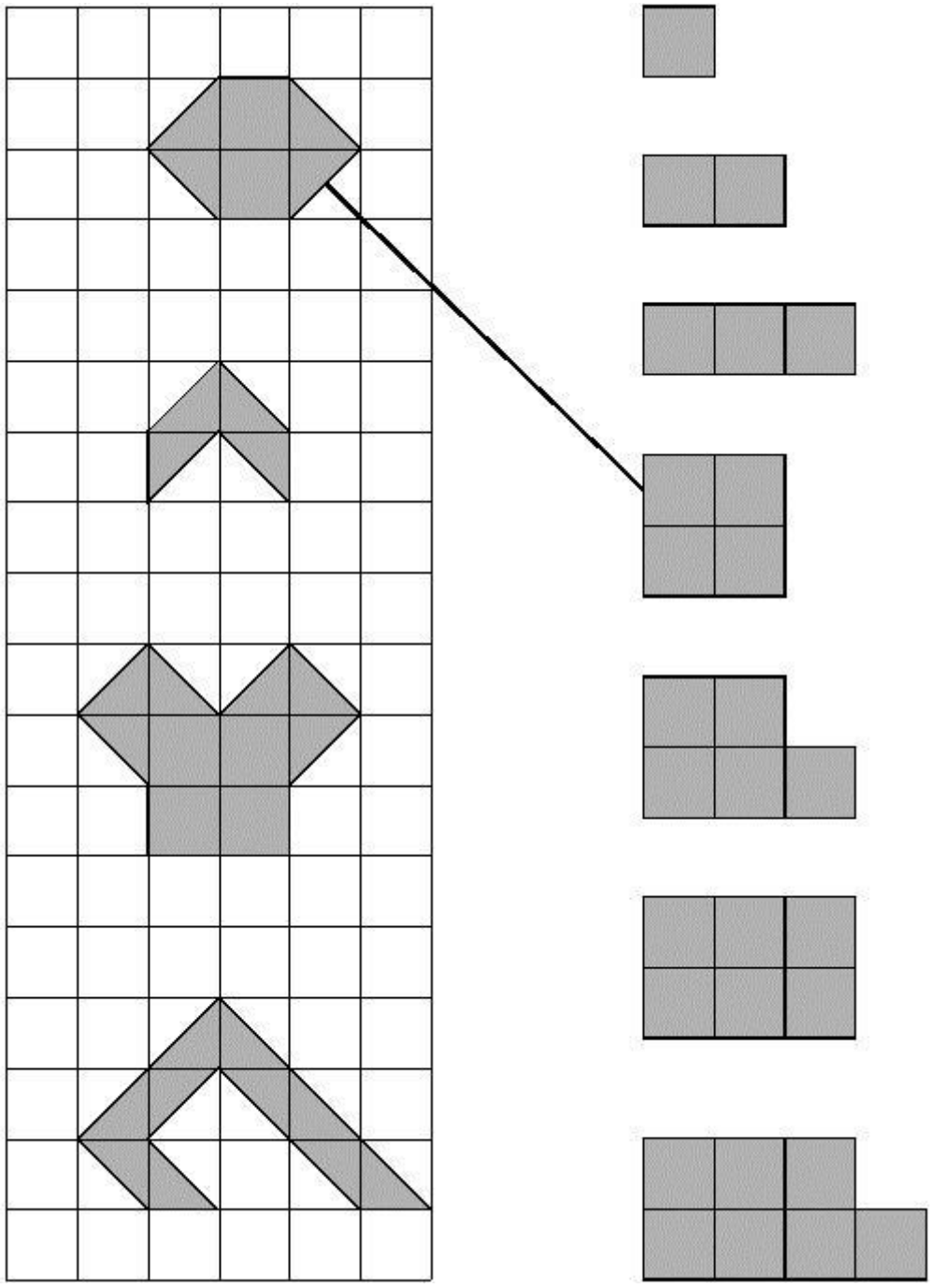
Write the letters of the **two** shapes that are equal in area.

_____ and _____

1 mark

Q15. Match each shape on the left to one with **equal area** on the right.

One has been done for you.

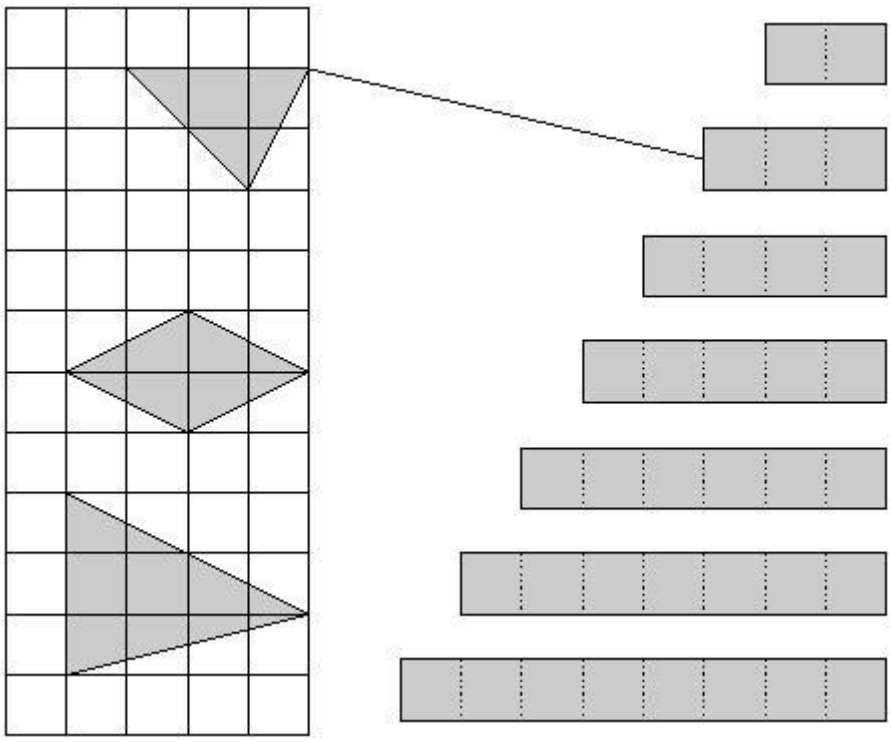


2 marks

Q16.

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

One is done for you.

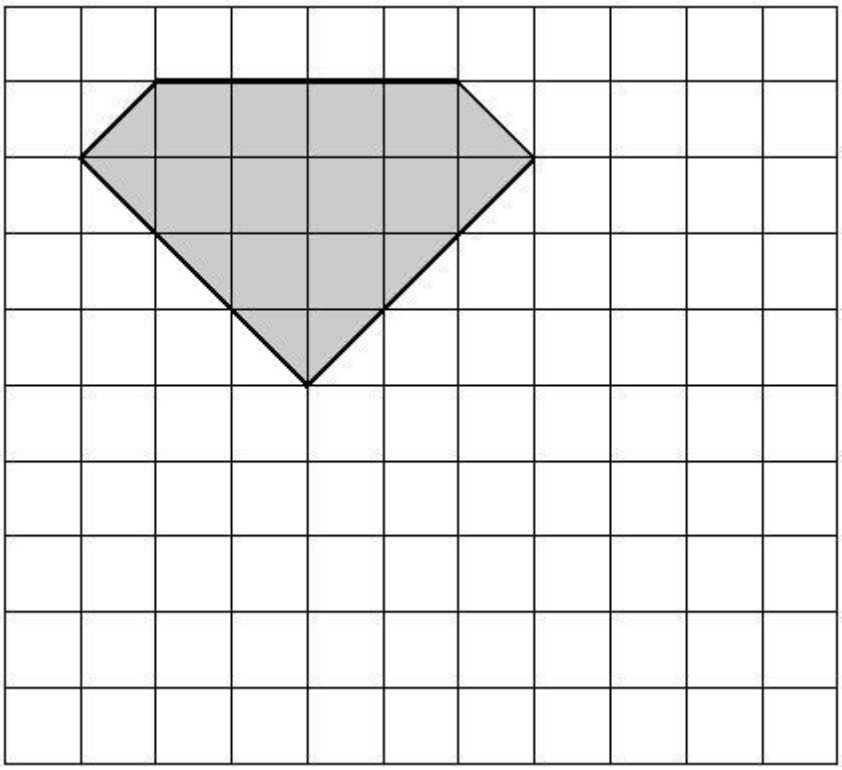


2 mark

Q17.

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

Use a ruler.

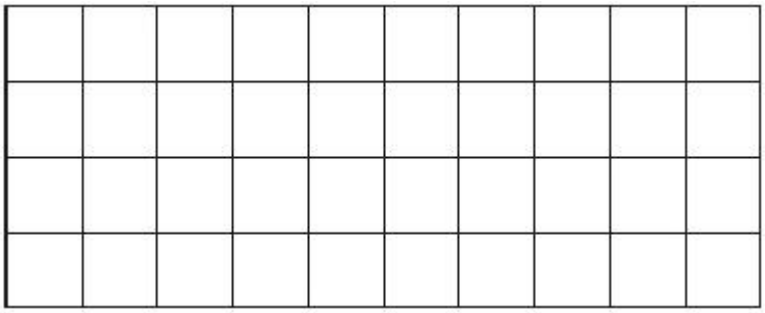


1 mark

Q18.

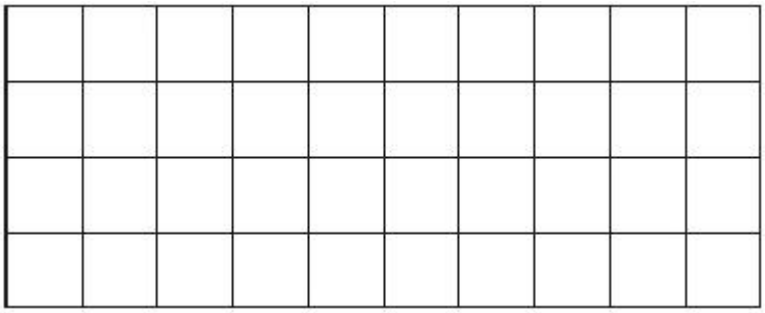
Here is a centimetre square grid.

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



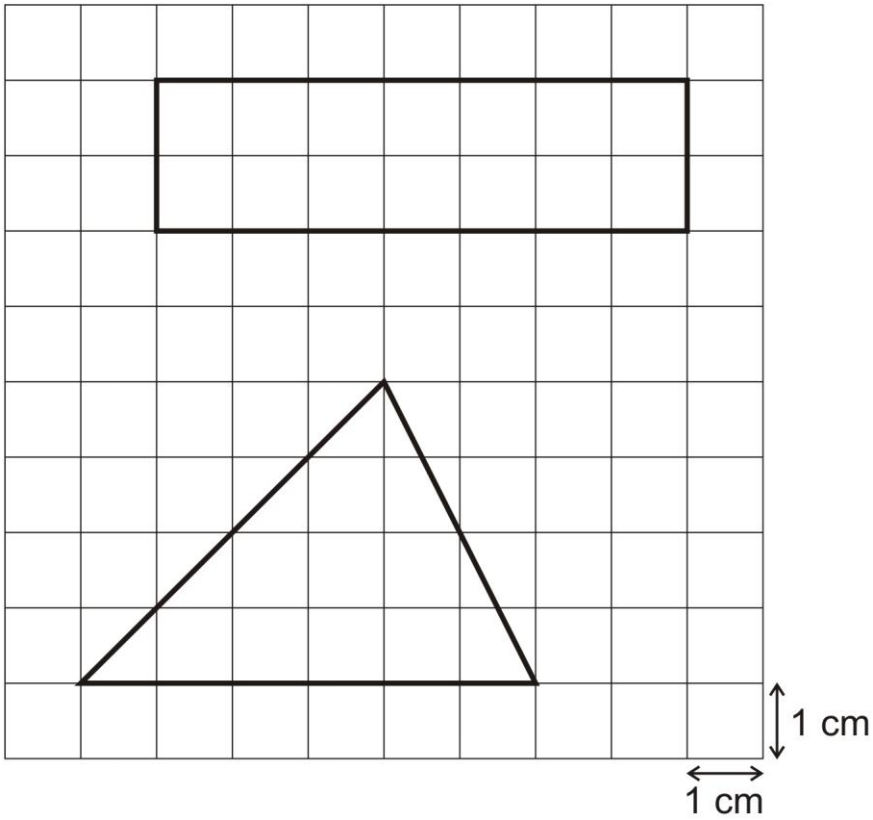
1 mark

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



1 mark

Q19.



Work out the area of each shape.

(a) Rectangle

cm²

1 mark

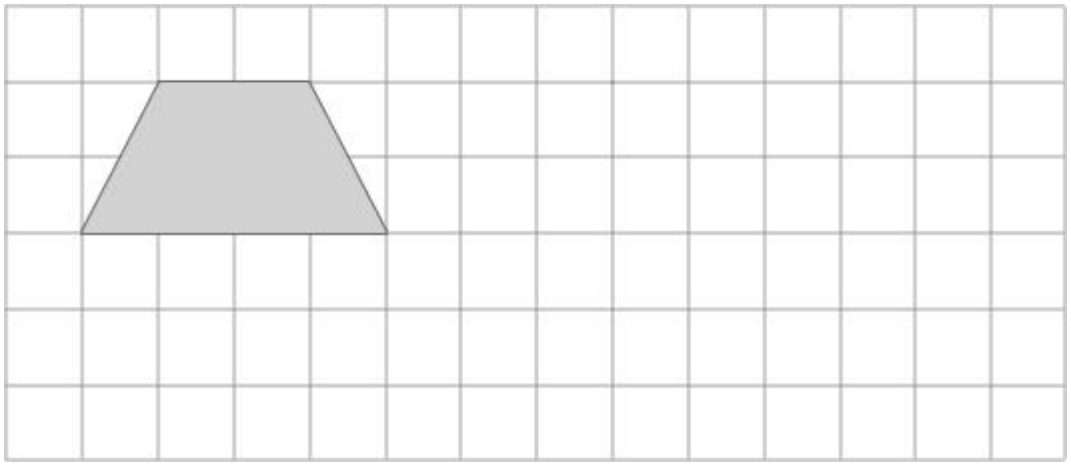
(b) Triangle

cm²

1 mark

Q20.

Here is a quadrilateral drawn on a square grid.



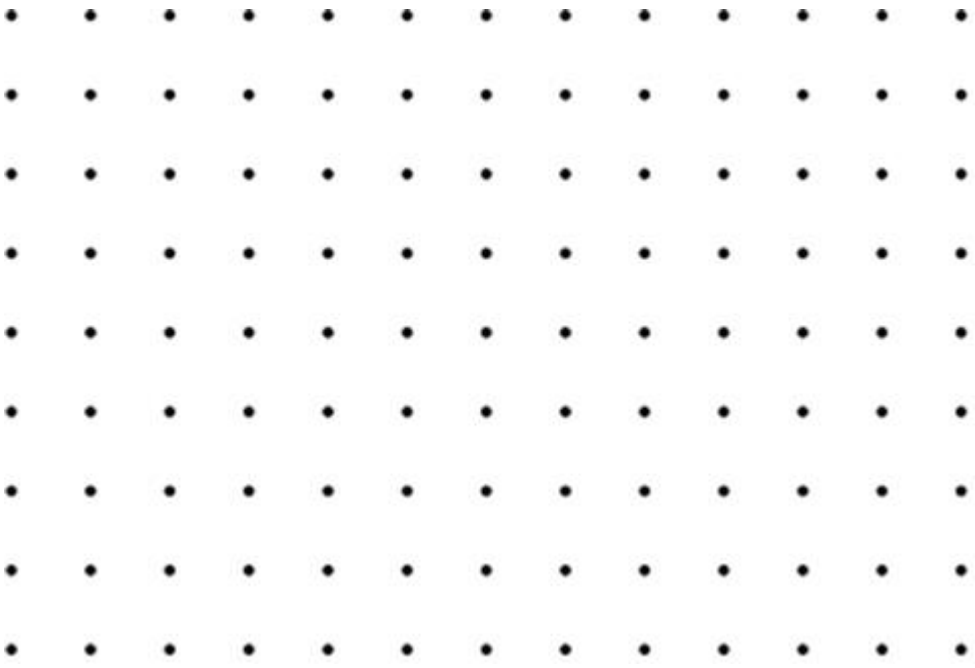
On the same grid, draw a **different** quadrilateral that has the **same** area.

1 mark

Q21.

Grace has a rectangle that has sides of 4 cm and 5 cm.

Draw a different rectangle that has the same area.



1 mar