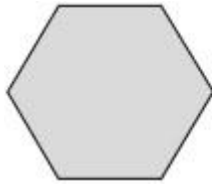


Q1.

These two shapes have the **same** perimeter.

regular hexagon



square

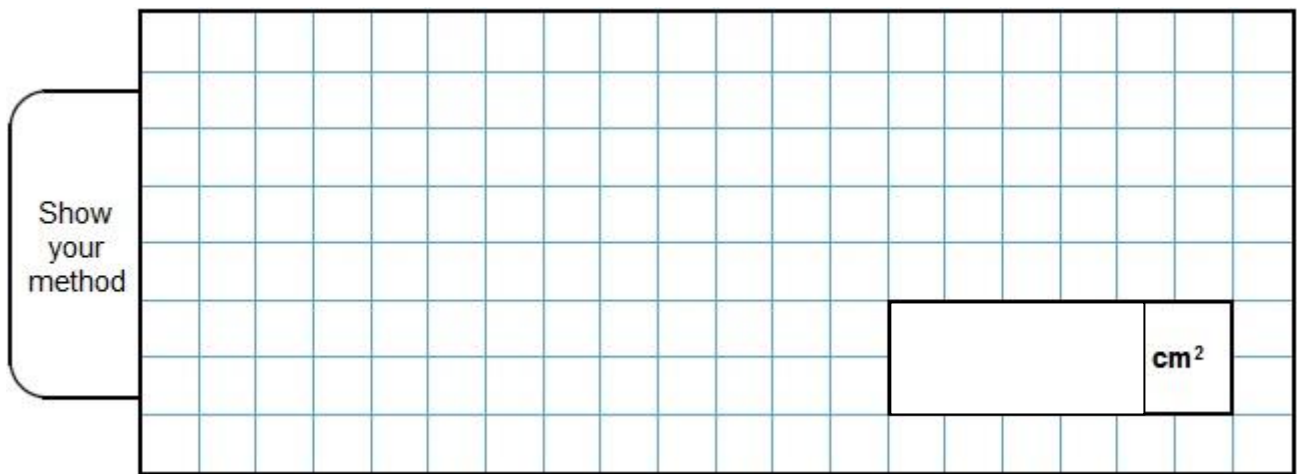


Not actual size

The length of each side of the **hexagon** is **8** centimetres.

Calculate the **area** of the **square**.

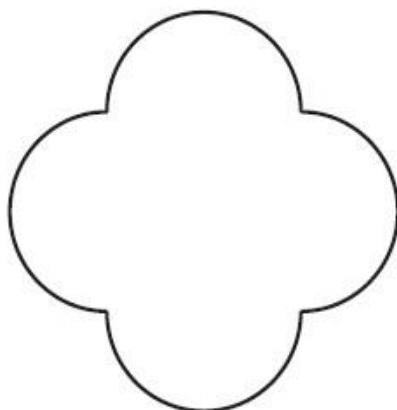
Show your method



2 marks

Q2.

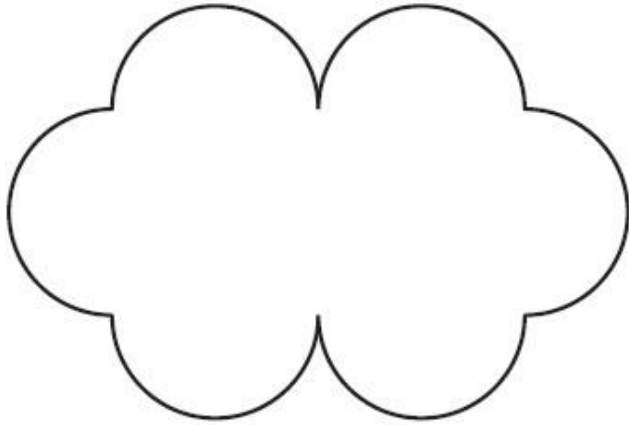
This shape is made out of four identical curves.



**Not
actual
size**

The perimeter of the shape is 28 centimetres.

A new shape is made out of curves of the same size.



What is the perimeter of the new shape?

Show your method

2 marks

Q3.

Megan says,

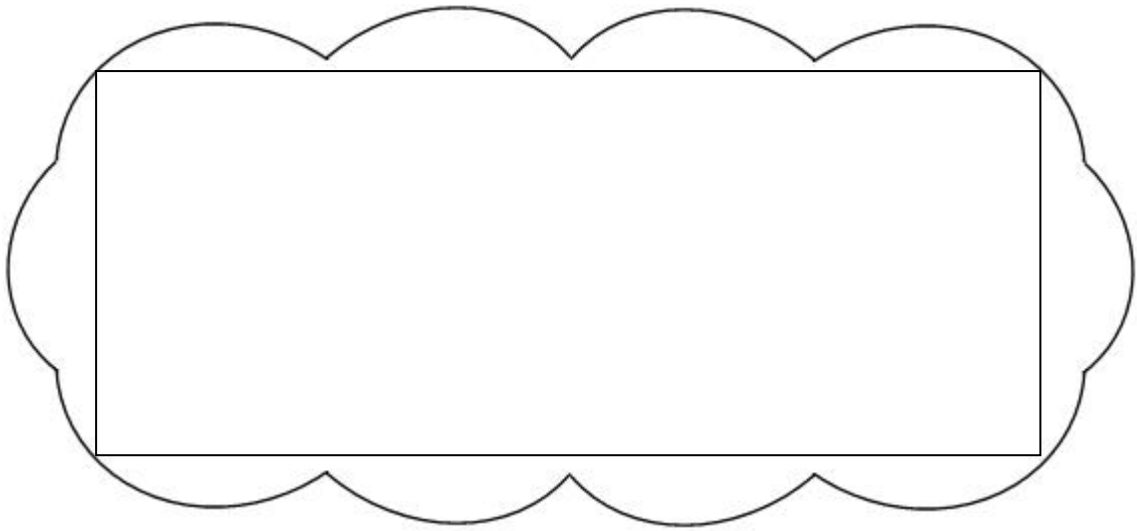
'If two rectangles have the same perimeter, they must have the same area.'

Is she correct?

Circle **Yes** or **No**.

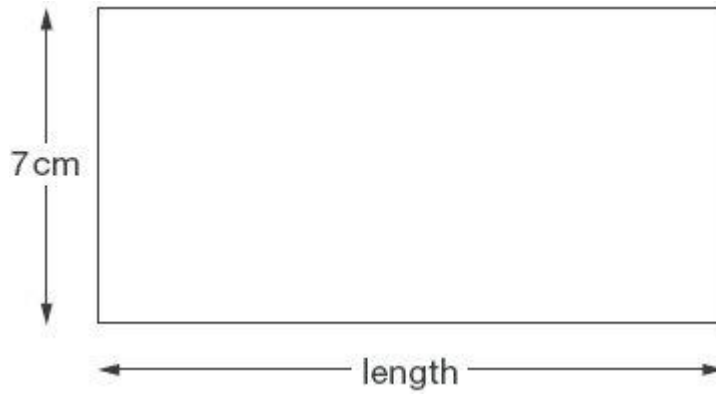
Yes / No

Explain how you know.



1 mark

Q4.



Not actual size

The perimeter of this rectangle is 50 centimetres.

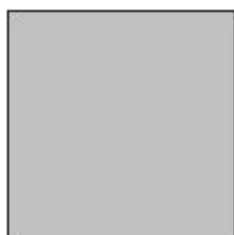
Calculate the length of the rectangle.

Show your method

2 marks

Q5.

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

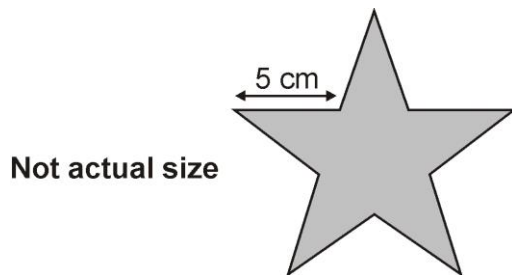
A large grid for showing the method. On the left side, there is a rounded rectangular box containing the text "Show your method". The grid itself is 20 units wide and 10 units high. In the bottom right corner of the grid, there is a smaller rectangle that is 4 units wide and 2 units high. The text "cm" is written inside the bottom right corner of this smaller rectangle.

2 marks

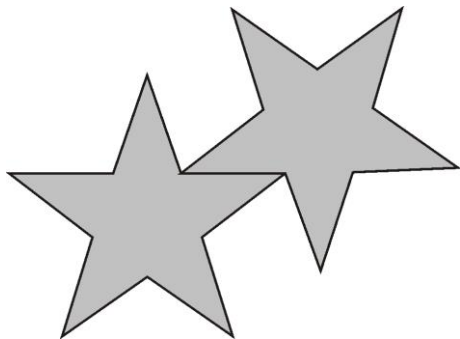
Q6.

Millie has some star-shaped tiles.

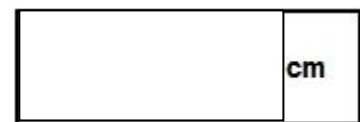
Each edge of a tile is 5 centimetres long.



She puts two tiles together to make this shape.



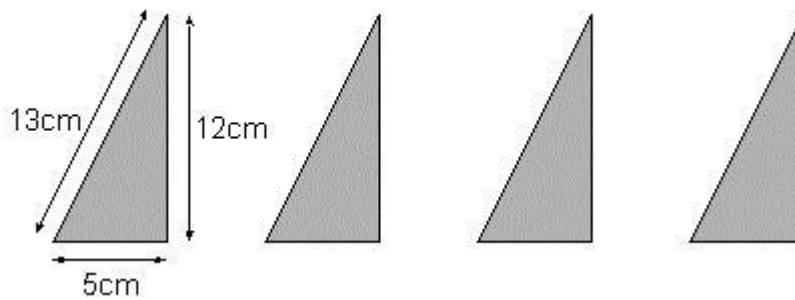
Work out the perimeter of Millie's shape.



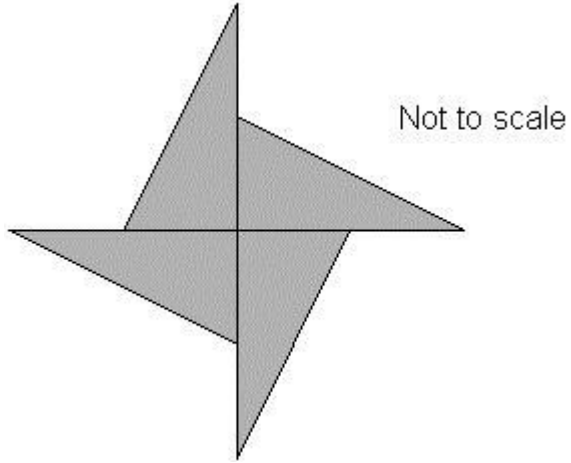
1 mark

Q7.

Lindy has 4 triangles, all the same size.



She uses them to make a star.



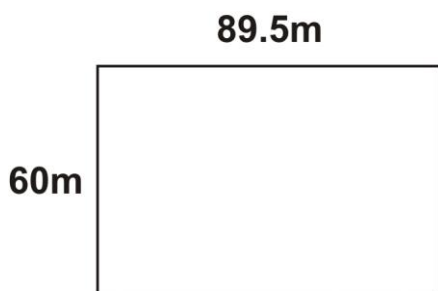
Calculate the **perimeter** of the star.

Show your method

2 mark

Q8.

A field measures 89.5 m by 60 m.



What is the perimeter of the field?

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.

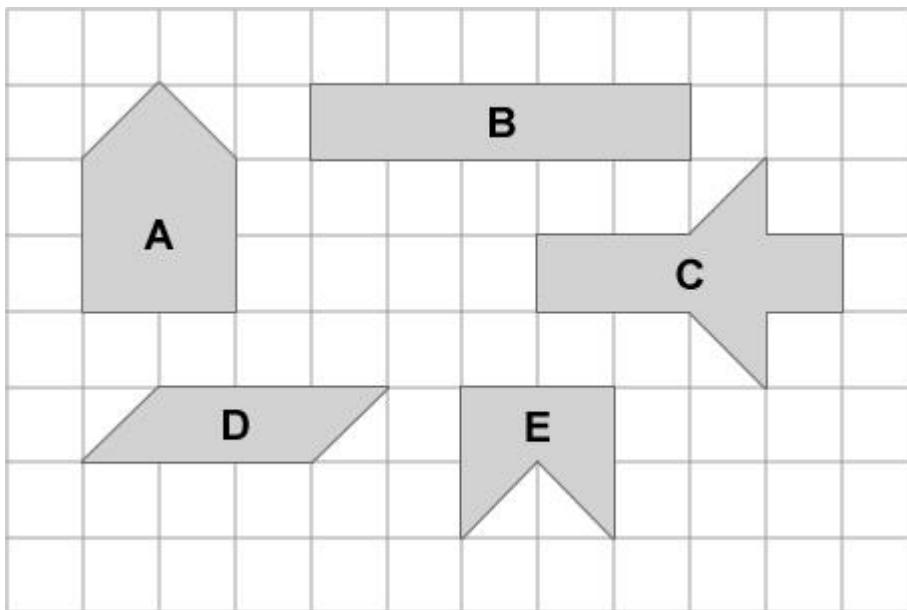
length =	
-----------------	--

width =	
----------------	--

1 mark

Q10.

The diagram shows some shapes on a centimetre square grid.



Which two shapes have the same **area** as shape A?

	and	
--	-----	--

1 mark

Which two shapes have the same **perimeter** as shape A?

	and	
--	-----	--

Mark schemes

Q1.

Award **TWO** marks for the correct answer of 144

Q2.

Award **TWO** marks for the correct answer of 42

Q3.

Indicates No and gives a correct explanation that includes indicating two different areas

Q4.

Award **TWO** marks for the correct answer of 18

Q5.

Award **TWO** marks for the correct answer of 54

Q6.

90

Q7.

Award **TWO** marks for a correct answer of 80

Q8.

299

Q9.

32 cm

Any factor pair of 64, other than 8 and 8, i.e. any of the following:

64 and 1

32 and 2

16 and 4

Accept dimensions where the width is longer than the length.

Q10.

B and C

D and E