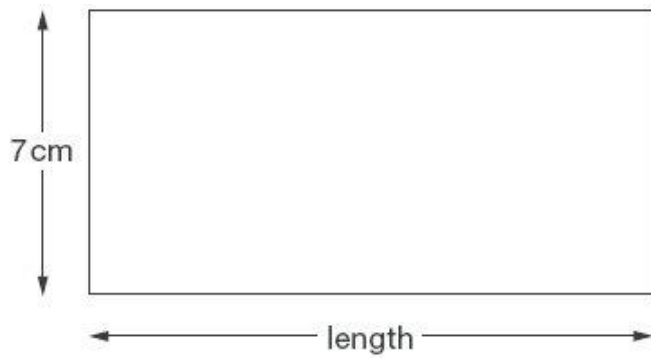


Q1.



Not actual size

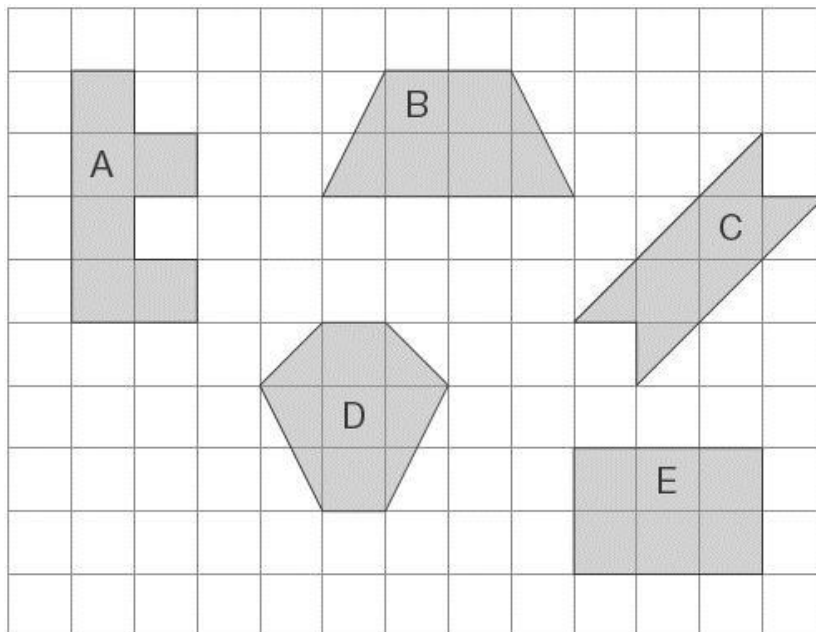
The perimeter of this rectangle is 50 centimetres.

Calculate the length of the rectangle.

2 marks

Q2.

Here are some shapes on a 1cm square grid.



What is the **perimeter** of shape A?

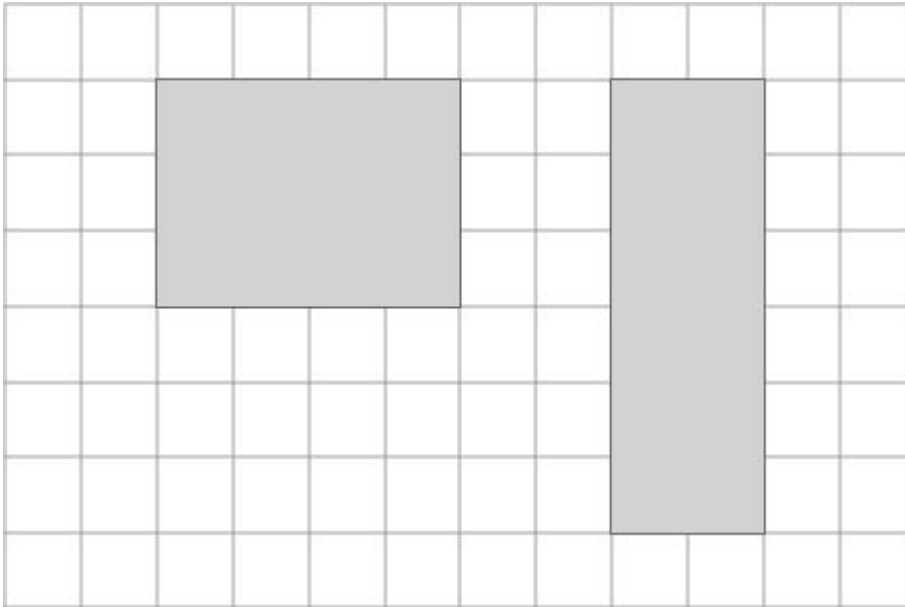
1 mark

Write the letter of the shape that has the **smallest area**.

1 mark

Q3.

Look at the shaded rectangles drawn on a centimetre square grid.



Sam says,

“The two rectangles have the same area as each other and the same perimeter as each other”

Is Sam correct?

Explain how you know using your reasoning sentence starters

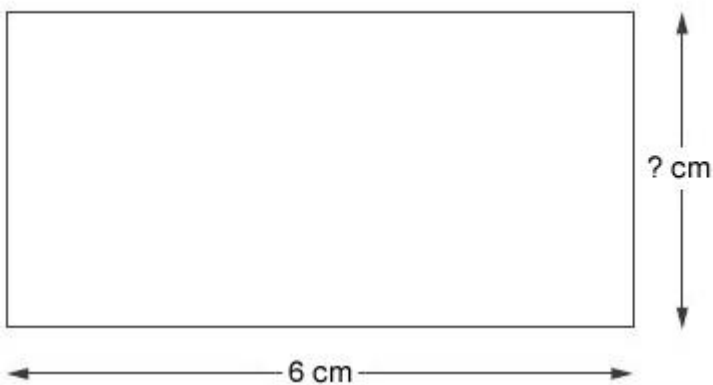
1 mark

Q4.

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

The **length** is 6 cm.

not to scale



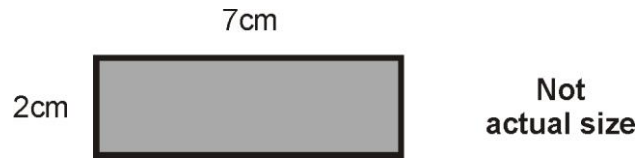
How long is the **width** of the rectangle?

1 mark

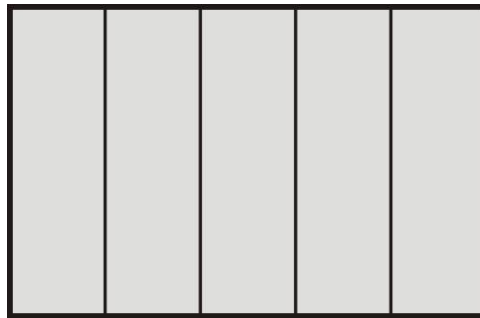
Q5.

Lara has some identical rectangles.

They are 7 centimetres long and 2 centimetres wide.



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



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

1 mark

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

1 mark

Q6.

The area of a rectangle is 16 cm^2 .

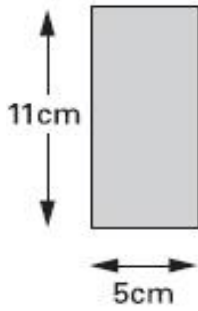
One of the sides is 2 cm long

What is the perimeter of the rectangle?

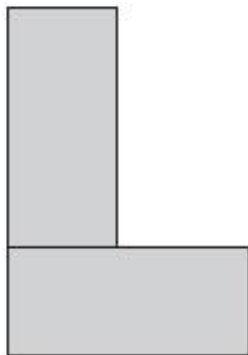
1 mark

Q7.

Liam has two rectangular tiles like this.



He makes this L shape.



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

1 mark

Q8.

Rectangle **ABCD** has a perimeter of **24 centimetres**.

Sides **AB** and **DC** are **twice as long** as sides **AD** and **BC**.



Not actual size

Calculate the length of side **AD**.

Do **not** use a ruler.

1 mark

Mark schemes

Q1.

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

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$$50 \div 2 = 25$$

$$25 - 7 = \text{wrong answer}$$

OR

$$7 \times 2 = 14$$

$$50 - 14 = 36$$

$$36 \div 2 = \text{wrong answer}$$

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2

[2]

Q2.

(a) 14

1

(b) C

Accept 5

1

[2]

Q3.

Explanation that recognises that the areas are the same BUT the perimeters are different, e.g.

- Sam is half right because the rectangles both contain the same number of squares, so they have the same area, but the perimeters are different – one is 14 cm and the other is 16 cm.
- The areas are both 12 cm², but the perimeters are 2 cm different.
- Sam is wrong because the perimeters are different. One has a perimeter of 14 cm and the other 16 cm.

[1]

Q4.

4 cm

[1]

Q5.

(a) 34

1

(b) 70

1

[2]

Q6.

20 (cm)

[1]

Q7.

54

Accept figures written on the diagram, provided a total is given.

[1]

Q8.

4

U1

[1]