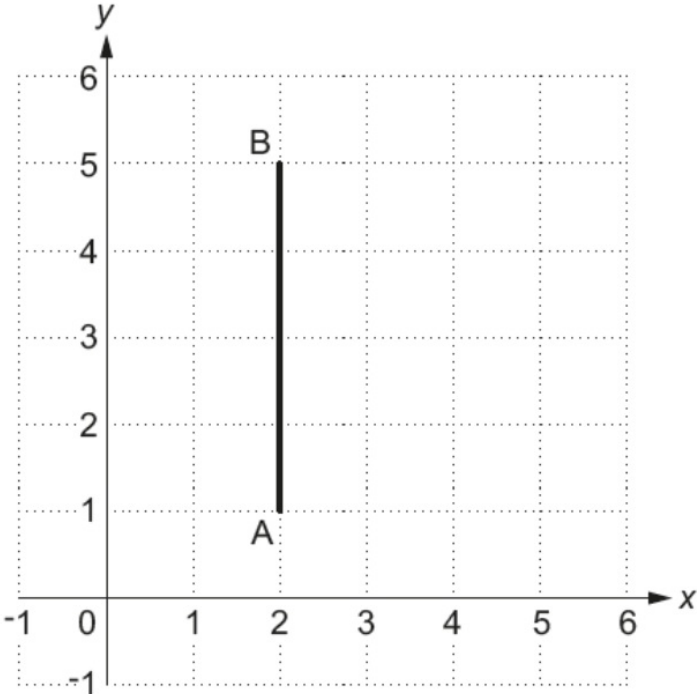


G15...Perimeter

OCR

(b) On this grid, AB is one side of a rectangle ABPQ with perimeter 12 cm.

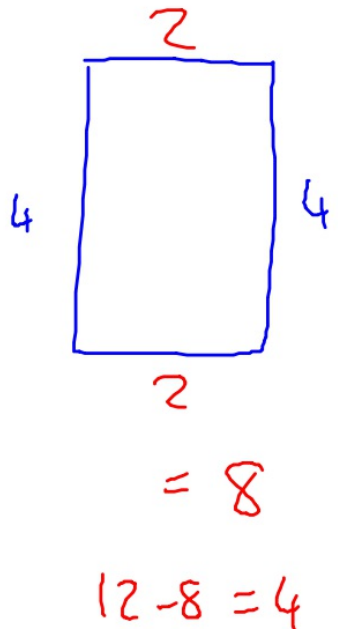
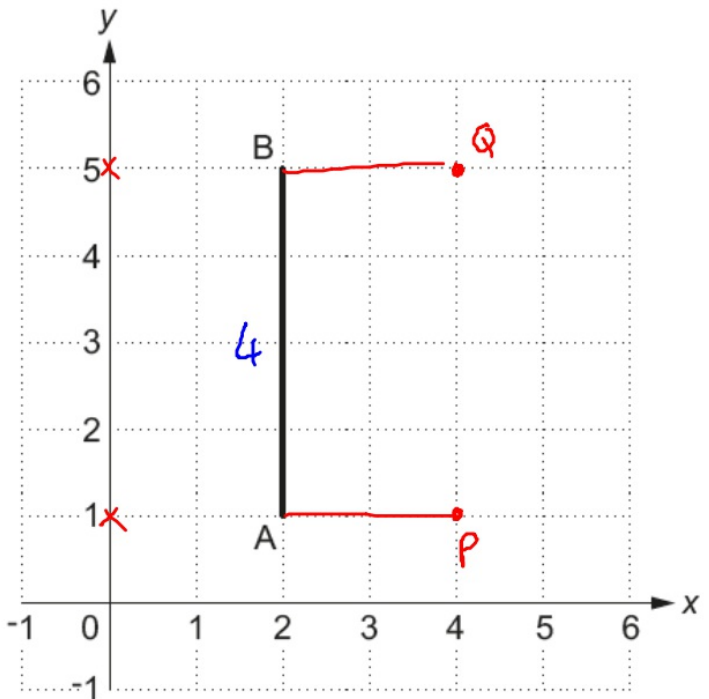


Find the coordinates for the positions of P and Q.  
Two different answers are possible.

(b) First answer: P (..... , ..... ) and Q (..... , ..... )

Second answer: P (..... , ..... ) and Q (..... , ..... ) [3]

(b) On this grid, AB is one side of a rectangle ABPQ with perimeter 12 cm.

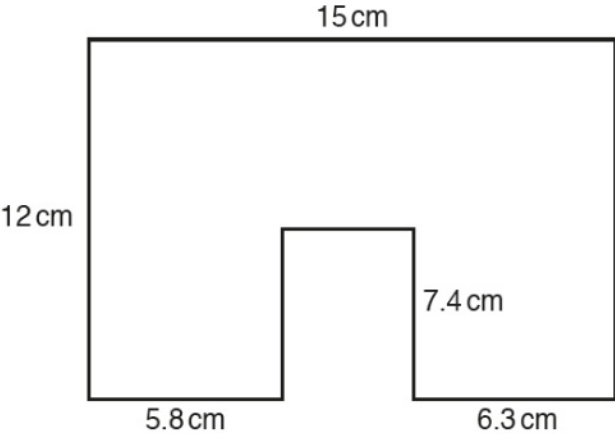


Find the coordinates for the positions of P and Q.  
Two different answers are possible.

- (b) First answer: P (4, 1) and Q (4, 5)  
Second answer: P (0, 1) and Q (0, 5) [3]

12 The shape below is formed from a rectangle measuring 12 cm by 15 cm from which a rectangle of length 7.4 cm has been removed.

Not to scale



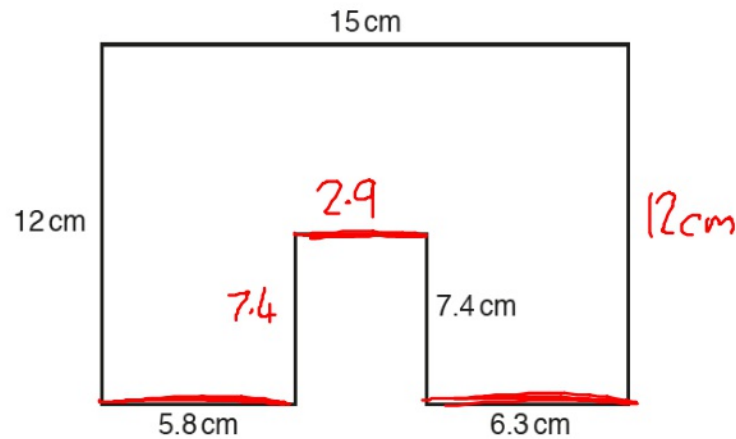
Work out the perimeter of the shape.

.....cm [3]

Video created by W Neill

- 12 The shape below is formed from a rectangle measuring 12 cm by 15 cm from which a rectangle of length 7.4 cm has been removed.

Not to scale



$$\begin{aligned} &15 + 12 + 12 + 5.8 \\ &+ 7.4 + 2.9 + 7.4 \\ &+ 6.3 \checkmark \end{aligned}$$

Work out the perimeter of the shape.

↪ distance outside

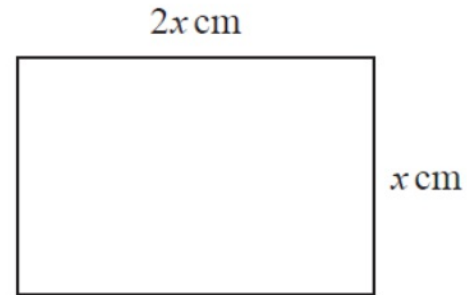
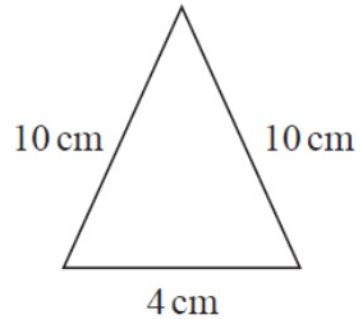
68.8

.....cm [3]

Edexcel

10 Here is a triangle and a rectangle.

A16  
G15



The perimeter of the triangle is the same as the perimeter of the rectangle.

Work out the width and length of the rectangle.

width = ..... cm

length = ..... cm

**(Total for Question 10 is 4 marks)**

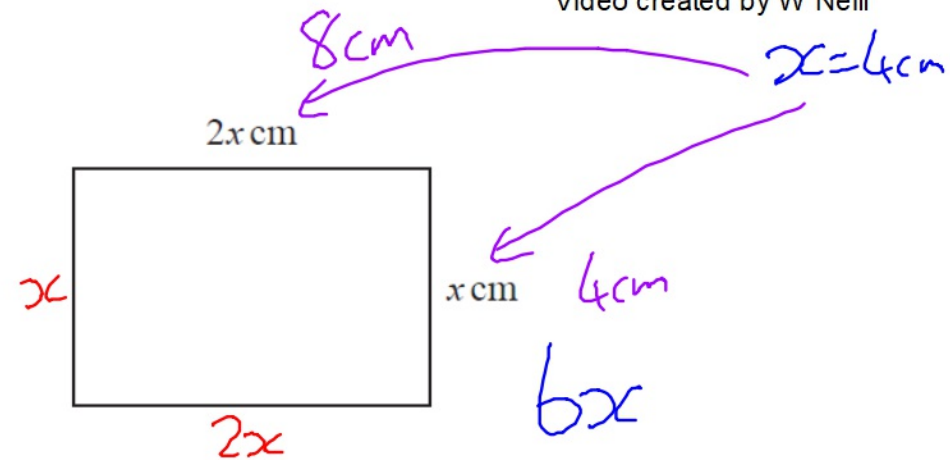
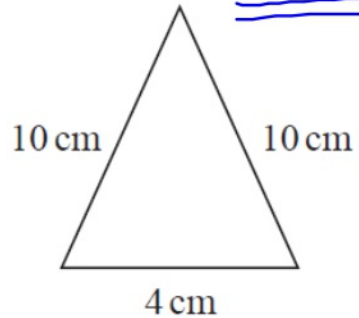
---



10 Here is a triangle and a rectangle.

A16  
G15

$$10 + 10 + 4 = \underline{\underline{24\text{ cm}}}$$



The perimeter of the triangle is the same as the perimeter of the rectangle.

Work out the width and length of the rectangle.

$$6x = 24\text{ cm}$$

$$x = \frac{24}{6}$$

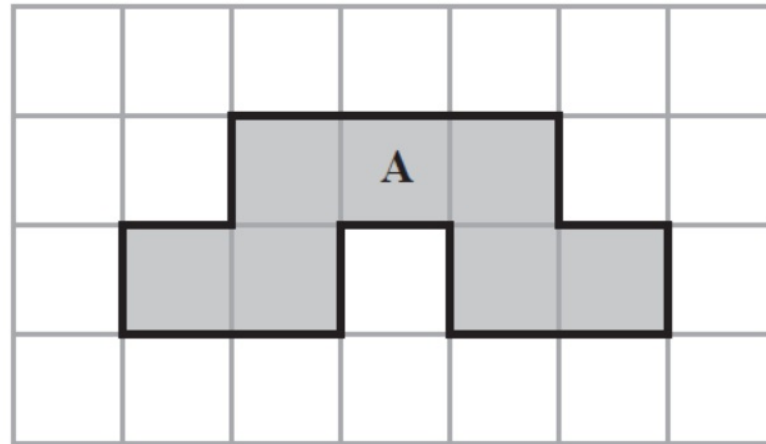
$$x = 4\text{ cm}$$

width = 4 cm  
length = 8 cm

**(Total for Question 10 is 4 marks)**

8 Shape A is shown shaded on a grid of centimetre squares.

G15

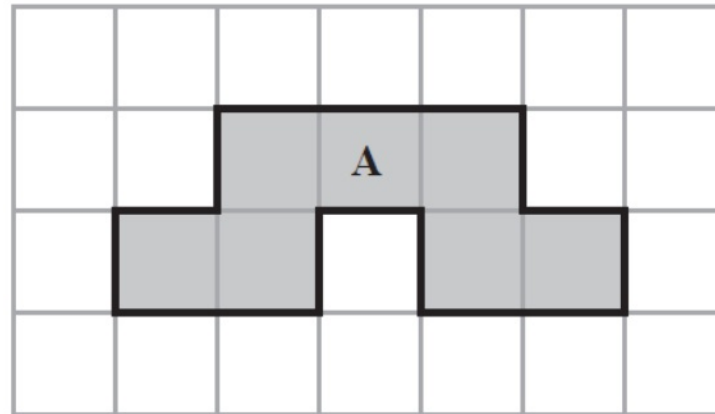


(a) Find the perimeter of shape A.

.....  
(2)

Shape A is shown shaded on a grid of centimetre squares below.

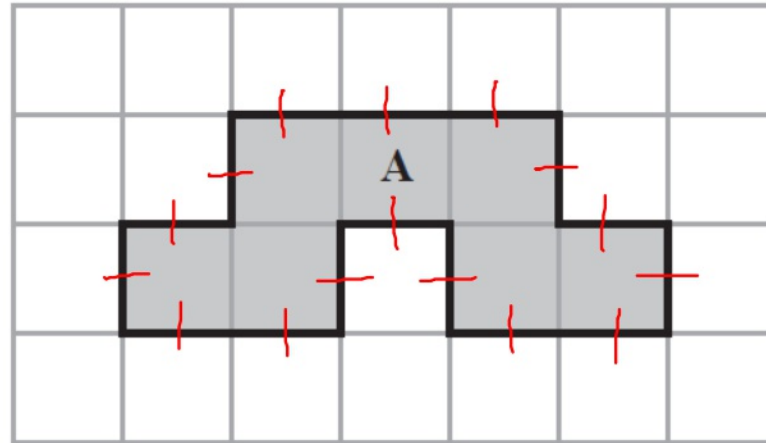
- (b) On the grid, shade **one** more square so that the shaded shape now has a perimeter which is **less** than the perimeter of shape A.



(1)

8 Shape A is shown shaded on a grid of centimetre squares.

G15



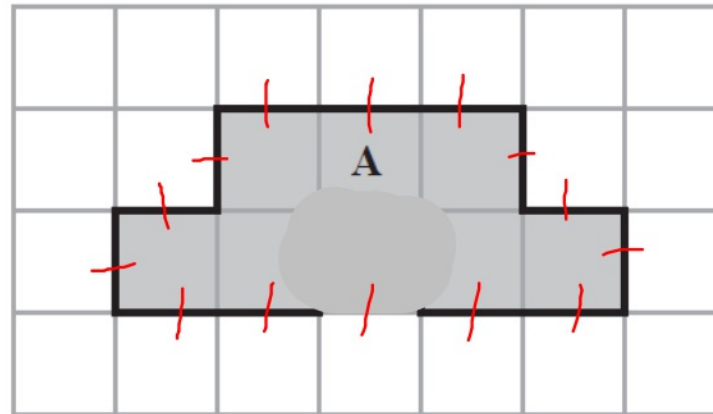
(a) Find the perimeter of shape A.

16cm

(2)

Shape A is shown shaded on a grid of centimetre squares below.

- (b) On the grid, shade **one** more square so that the shaded shape now has a perimeter which is **less** than the perimeter of shape A.

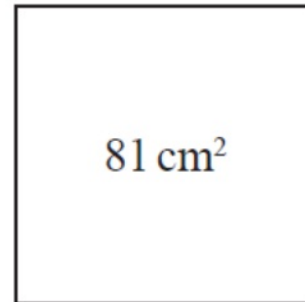


now perimeter  
is 14cm

(1)

$$14\text{cm} < 16\text{cm}$$

13 A square has an area of  $81 \text{ cm}^2$



(a) Find the perimeter of the square.

G15

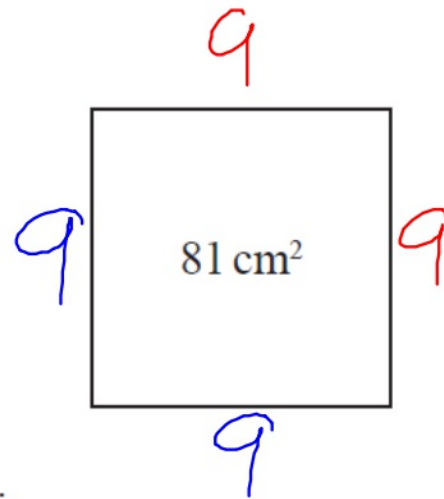
G17

.....cm

(2)

13 A square has an area of  $81 \text{ cm}^2$

$$\text{Area} = X^2 = 81$$
$$\sqrt{81} = 9$$



$$9 \times 9 = 81$$

(a) Find the perimeter of the square.

G15  
G17

$$\rightarrow 9 + 9 + 9 + 9$$
$$\text{or } 9 \times 4 = 36$$

.....36.....cm  
(2)

AQA



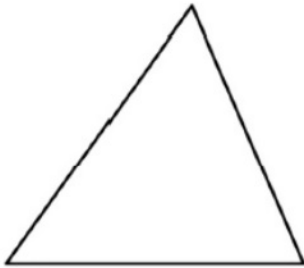
11

A triangle has perimeter 32 cm

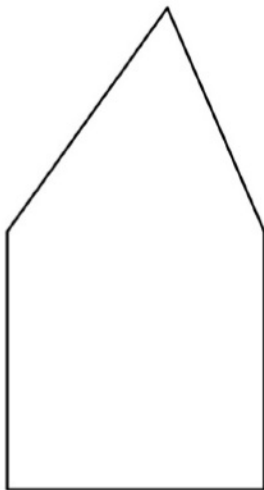
A square has perimeter 40 cm

Video created by W Neill

G15



Two sides of the shapes are put together to make a pentagon.



Not drawn accurately

Work out the perimeter of the pentagon.

[4 marks]

Answer \_\_\_\_\_ cm

11

A triangle has perimeter 32 cm

A square has perimeter 40 cm

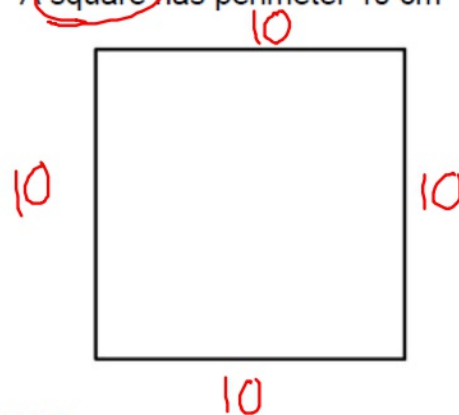
Video created by W Neill

G15



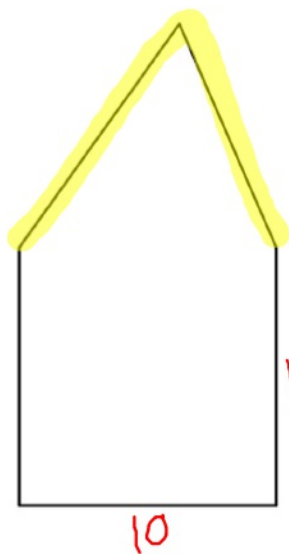
Yellow = 22 cm

$$22 + 10 = 32$$



$$40 \div 4 = 10 \text{ cm}$$

Two sides of the shapes are put together to make a pentagon.



Not drawn accurately

Yellow = 22 cm

Work out the perimeter of the pentagon.

[4 marks]

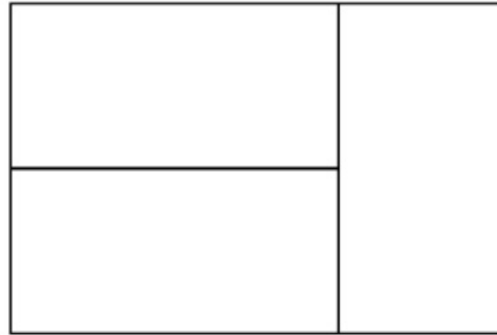
$$22 + 10 + 10 + 10$$

Answer 52 ✓ cm

Video created by W Neill

31 A large rectangle is made by joining three identical small rectangles as shown.

G15



Not drawn accurately

The perimeter of one small rectangle is 15 cm

Work out the perimeter of the large rectangle.

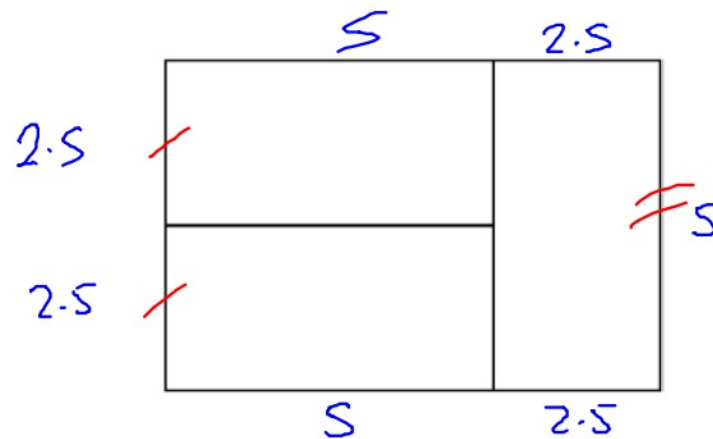
[4 marks]

Answer \_\_\_\_\_ cm

31

A large rectangle is made by joining three identical small rectangles as shown.

G15



Not drawn accurately



$$7.5 \div 3 = 2.5$$

The perimeter of one small rectangle is 15 cm

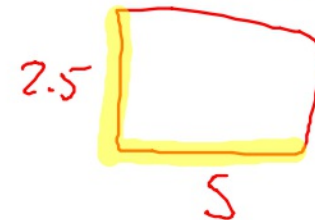
Work out the perimeter of the large rectangle.

$$2.5 \times 4 = 10$$

$$+(3 \times 5) = 15$$

$$10 + 15$$

[4 marks]



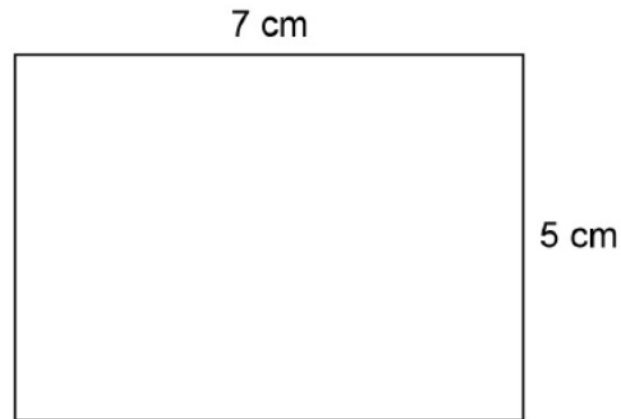
Answer 25 ✓ cm

1

Here is a rectangle.

615

Not drawn  
accurately



Work out the perimeter.

Circle your answer.

[1 mark]

12 cm

24 cm

35 cm

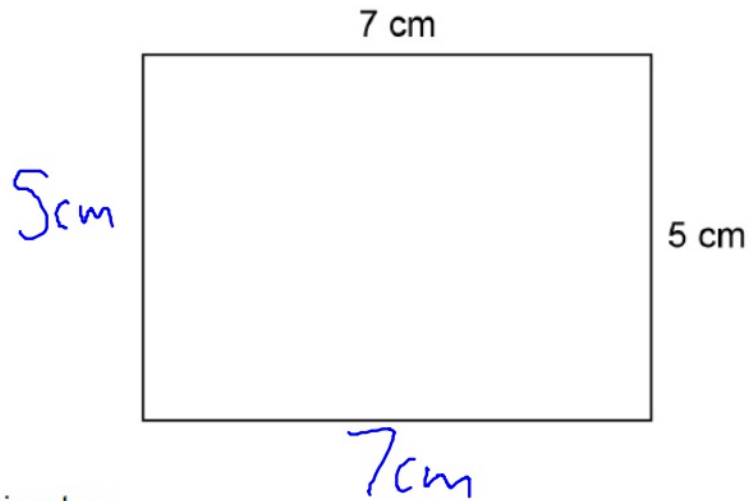
70 cm

1

Here is a rectangle.

615

Not drawn accurately



Work out the perimeter.

Circle your answer.

[1 mark]

12 cm

24 cm

35 cm

70 cm

**10** Each side of a square is made 3 times as long.

**G15** What happens to the perimeter?

Circle your answer.

**[1 mark]**

$\times 3$

$\times 6$

$\times 9$

$\times 12$

10 Each side of a square is made 3 times as long.

G15

What happens to the perimeter?

Circle your answer.

[1 mark]

