

Perimeter

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **28**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. Diagrams are not drawn accurately.

- 1** A regular octagon has sides of length 5 cm.
Circle the perimeter of the octagon.

[1 mark]

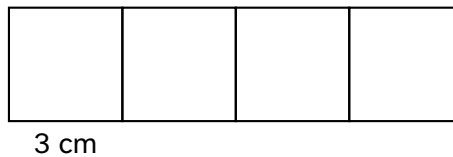
13 cm

25 cm

30 cm

40 cm

- 2** Here is a shape made from squares.

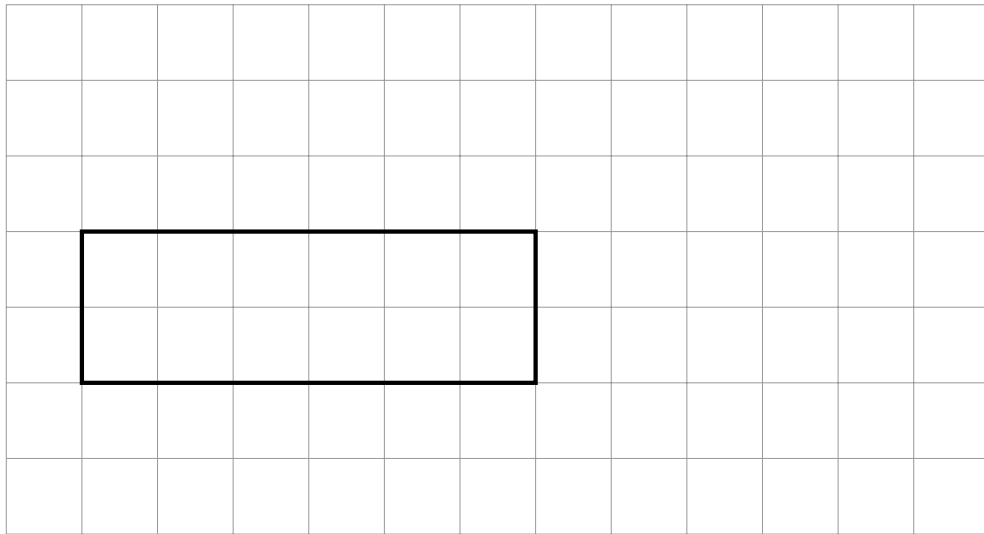


Four squares, each with side length 3 cm, are joined in a row.
Work out the perimeter of the shape.

[2 marks]

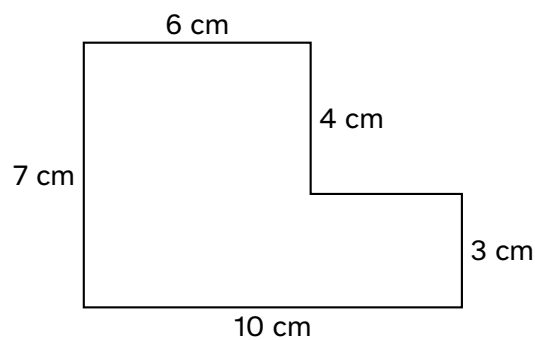
Answer _____ cm

- 3** A rectangle is drawn on the centimetre grid.
On the grid, draw a square that has the same perimeter as the rectangle.



[2 marks]

- 4** The shape is made from rectangles.
All the corners are right angles.



Not drawn accurately

Work out the perimeter of the shape.

[2 marks]

Answer _____ cm

- 5** A square has an area of 49 cm^2
Work out the perimeter of the square.

[2 marks]

Answer _____ cm

- 6** A rectangle has a perimeter of 30 cm.
The length of the rectangle is 9 cm.
Work out the width of the rectangle.

[2 marks]

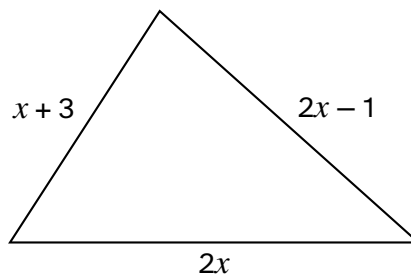
Answer _____ cm

- 7** A square and an equilateral triangle have the same perimeter.
The square has sides of length 6 cm.
Work out the length of one side of the triangle.

[2 marks]

Answer _____ cm

- 8 Here is a triangle.
The lengths are in centimetres.



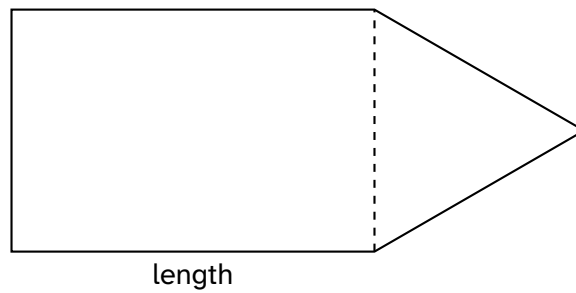
Not drawn accurately

The perimeter of the triangle is 32 cm.
Work out the length of the longest side.

[3 marks]

Answer _____ cm

- 9 An equilateral triangle has a perimeter of 24 cm.
The triangle is joined to a rectangle to make this shape.
One side of the triangle fits exactly along one of the shorter sides of the rectangle.



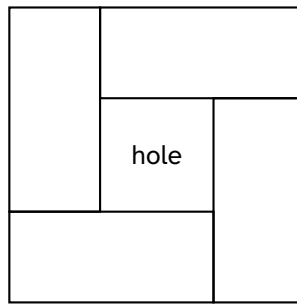
Not drawn accurately

The perimeter of the shape is 48 cm.
Work out the length of the rectangle.

[4 marks]

Answer _____ cm

- 10** Four identical rectangles are put together to make a large square with a square hole in the middle, as shown.
Each rectangle has a perimeter of 26 cm and a length of 9 cm.



Not drawn accurately

- (a) Work out the perimeter of the large square.

[2 marks]

Answer _____ cm

- (b) Work out the perimeter of the square hole.

[2 marks]

Answer _____ cm

- 11** A rectangular garden is 12 m long and 8.5 m wide.
A fence is put all the way round the edge of the garden.
Each fence panel is 1.8 m wide and costs £24

Work out the cost of the fence panels.

[4 marks]

Answer £ _____