



Name: _____ **Date:** _____ **Score:** _____ / 41

- 1** Ben wants to work out the perimeter of a square with sides of length 6 cm.

Ben writes:

$$\text{perimeter} = 6 \times 6 = 36 \text{ cm}$$

Explain the mistake Ben has made.

(2 marks)

Answer _____

- 2**
- A regular hexagon has sides of 7 cm. Work out its perimeter.
 - A regular pentagon has a perimeter of 45 cm. Work out the length of one side.
 - Work out the perimeter of the quadrilateral in the diagram.

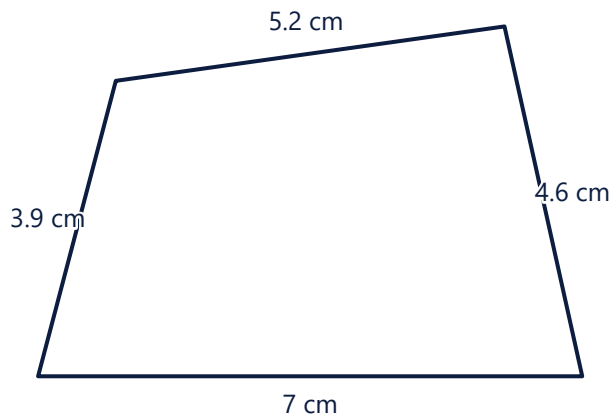


Diagram NOT accurately drawn

(3 marks)

Answer _____

3

An L-shape is made by joining a rectangle 8 cm by 5 cm to a rectangle 4 cm by 3 cm. The two rectangles do not overlap.

Work out the total area of the L-shape.

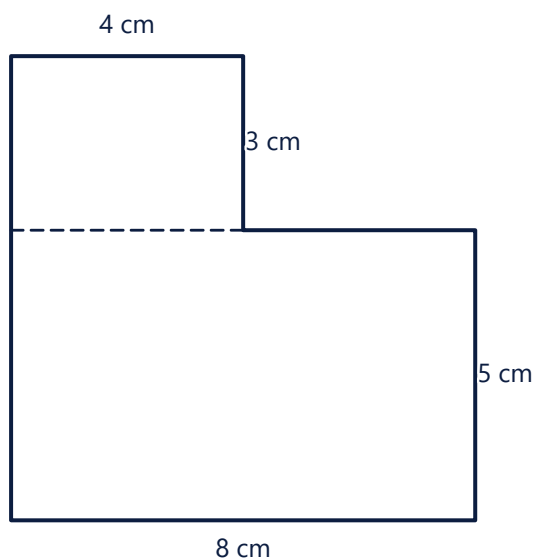


Diagram NOT accurately drawn

(2 marks)

Answer

4

An L-shape is made by removing a rectangle 3 cm by 2 cm from one corner of a rectangle 8 cm by 6 cm.

Work out the perimeter of the L-shape.

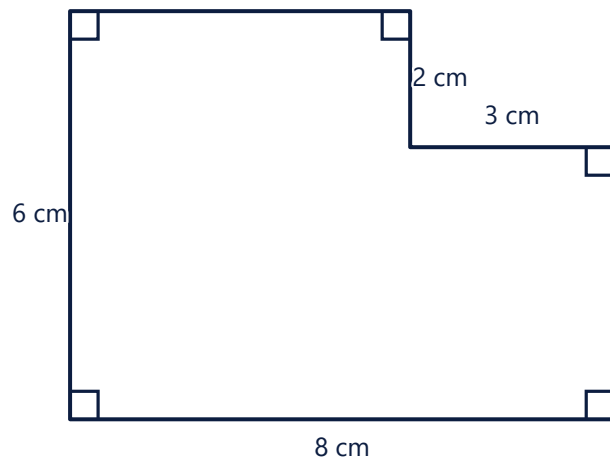


Diagram NOT accurately drawn

(3 marks)

Answer

- 5 A rectangle is 12 cm long and 9 cm wide.
A rectangle 5 cm by 4 cm is removed from one corner.
Work out the area of the remaining shape.

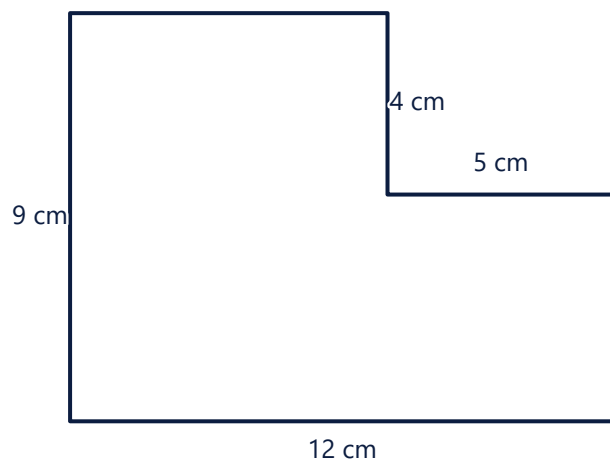


Diagram NOT accurately drawn

(3 marks)

Answer

6 The diagram shows a U-shape. All the corners are right angles.

- Work out the perimeter of the shape.
- Work out the area of the shape.

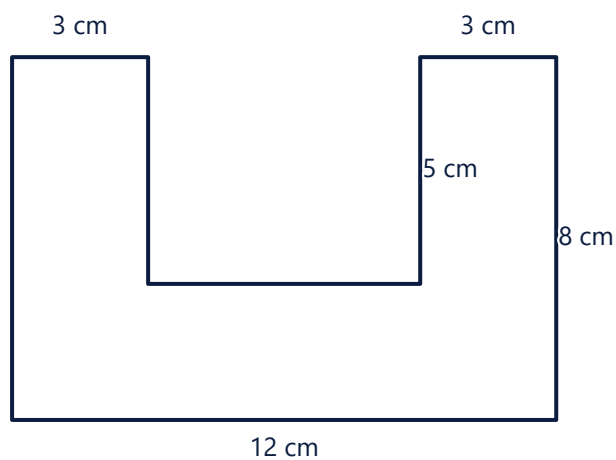


Diagram NOT accurately drawn

(4 marks)

Answer _____

7 A rectangle is made from three identical squares placed side by side in a row.

The perimeter of the rectangle is 48 cm.

Work out the area of the rectangle.

(3 marks)

Answer _____

8 A rectangular garden is 9 m long and 7 m wide.

A rectangular patio 4 m by 3 m is laid inside the garden. The rest of the garden is to be covered with grass seed.

One bag of grass seed covers 15 m^2 and costs £9.99.

Work out the total cost of the bags of grass seed needed.

(5 marks)

Answer _____

9 A rectangular patio is 4.5 m long and 3.6 m wide.

The patio is to be covered completely with square paving slabs. Each slab has sides of length 0.9 m and costs £7.25.

Work out the total cost of the slabs needed. You may assume no slabs are cut.

(4 marks)

Answer _____

10 Jamal is painting one wall of his bedroom. The wall is a rectangle 4 m wide and 2.5 m high. It has a window 1.5 m wide and 1.2 m high, which is not painted.

He gives the wall two coats of paint. One litre of paint covers 6 m^2 . Paint is sold in 2.5 litre tins costing £14 each.

Work out the cost of the paint Jamal needs to buy.

(4 marks)

Answer _____

- 11 A triangle has base $(x + 4)$ cm and perpendicular height 6 cm.

The area of the triangle is 42 cm^2 .

- Show that $3x + 12 = 42$.
- Work out the value of x .

(4 marks)

Answer _____

- 12 A rectangle has length $(2x + 3)$ cm and width x cm.

The perimeter of the rectangle is 36 cm.

- Show that $6x + 6 = 36$
- Work out the area of the rectangle.

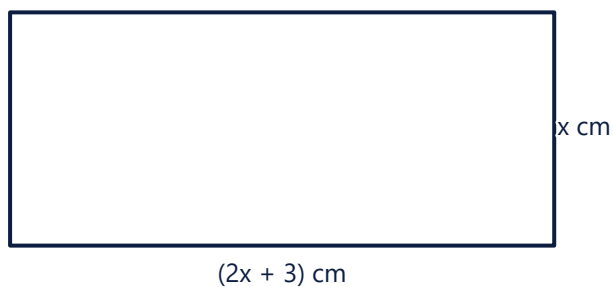


Diagram NOT accurately drawn

(4 marks)

Answer _____

End of questions | Total 41 marks