

- 1 The diagram shows a shape.

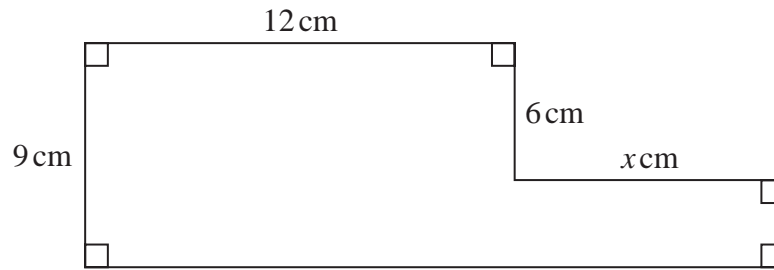


Diagram **NOT**
accurately drawn

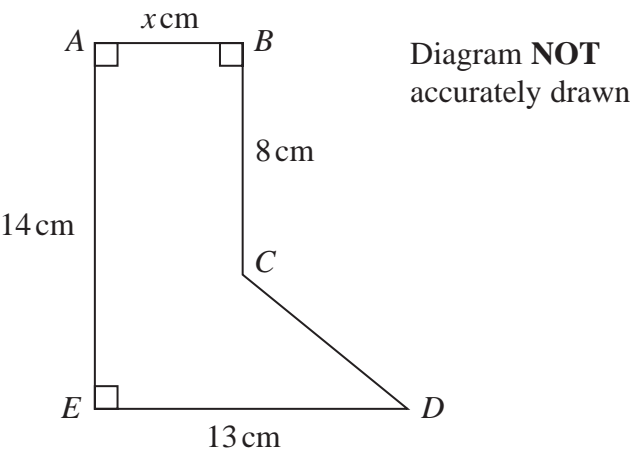
The shape has area 129 cm^2

Work out the value of x .

$x = \dots\dots\dots$

(Total for Question 1 is 4 marks)

2



The diagram shows the shape $ABCDE$.

The area of the shape is 91.8 cm^2

Work out the value of x .

$x =$

(Total for Question 2 is 4 marks)

3 The diagram shows a quadrilateral $ABCD$

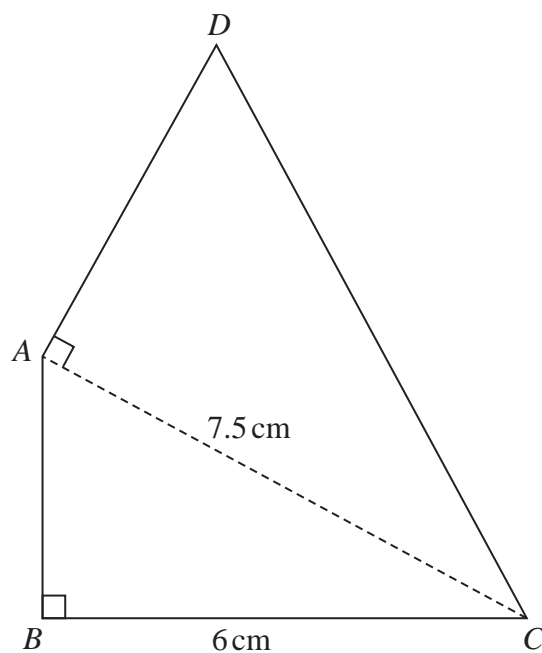


Diagram **NOT**
accurately drawn

In the diagram, ABC and DAC are right-angled triangles.

$$BC = 6 \text{ cm} \quad AC = 7.5 \text{ cm}$$

The area of quadrilateral $ABCD$ is 31.5 cm^2

Work out the length of AD

..... cm

(Total for Question 3 is 6 marks)

4 The diagram shows a shape made from a square $ABCD$ and 4 identical semicircles.

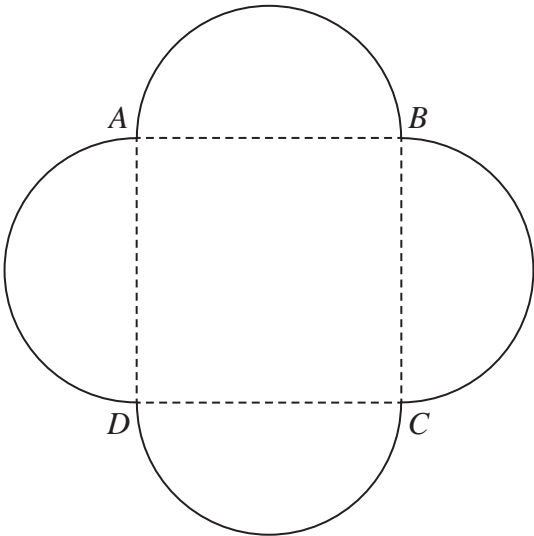


Diagram **NOT**
accurately drawn

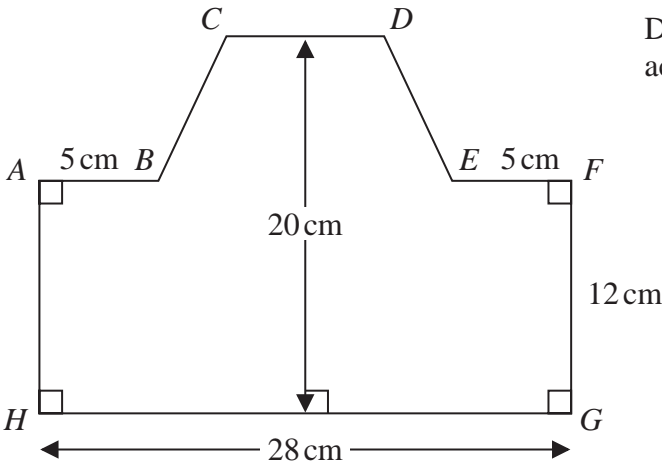
As shown in the diagram, the semicircles have AB , BC , CD and DA as diameters.

The area of the square is 36 cm^2

Calculate the total area of the shape.
Give your answer correct to one decimal place.

..... cm^2

5 The diagram shows an 8-sided shape $ABCDEFGH$.



$HG = 28\text{ cm}$ $FG = 12\text{ cm}$ $AB = EF = 5\text{ cm}$
The height of the shape is 20 cm
 CD is parallel to HG

The area of shape $ABCDEFGH$ is 434 cm^2

Find the length of CD .

..... cm