Name:

## **Exam Style Questions**



Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

## Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- 3. Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

## Revision for this topic

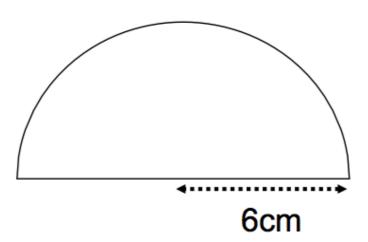
www.corbettmaths.com/contents

Video 47



1. Shown is a semi-circle.



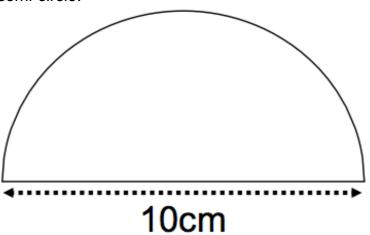


Work out the area.
State the units for your answer.

(3)

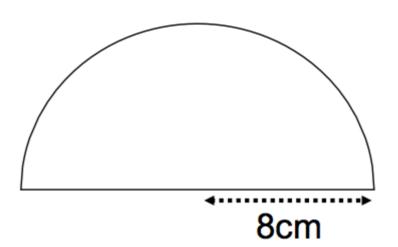
2. Shown is a semi-circle.





Work out the area. State the units for your answer. 3. Below is a semi-circle.



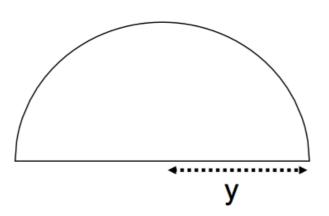


Work out the area of the semi-circle. Leave your answer in terms of  $\boldsymbol{\pi}$ 

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4. The semi-circle below has an area of 40cm<sup>2</sup>

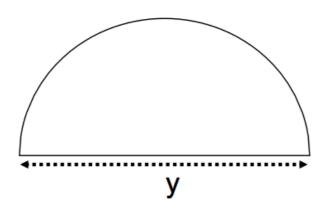




Calculate y.

5. The semi-circle below has an area of  $50\pi$  cm<sup>2</sup>



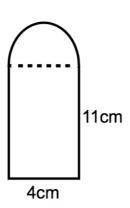


Calculate y.

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6. Shown below is a compound shape made from a rectangle and semi-circle.





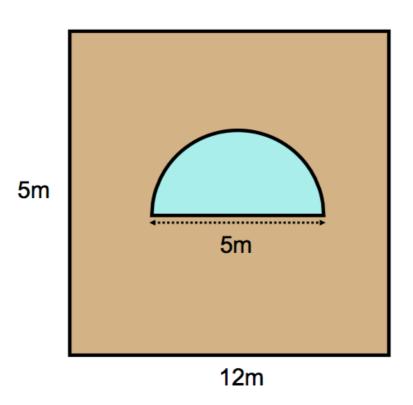
Calculate the area of the shape.

7. The side of a wooden shed is shown below.

There is a semi-circular glass window, 5m wide.



Not to scale



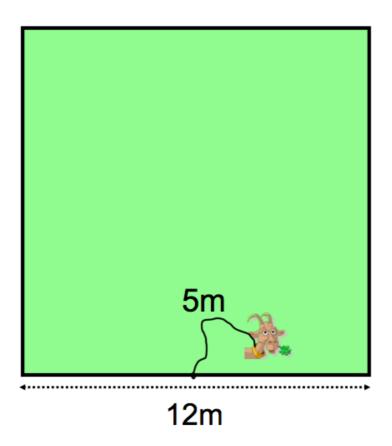
James wants to paint the shed. Each tin costs £1.99 and covers 5m<sup>2</sup>

Work out the total cost to paint the shed.

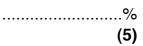
8. A goat is in a square field which has length 12m.

The goat is tied to the middle of a 12m fence on one side with a 5m rope.



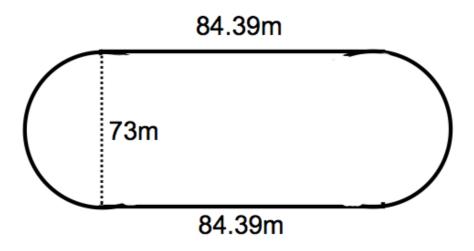


Work out the percentage of the field the goat can reach.



9. Shown below is a 400m running track.

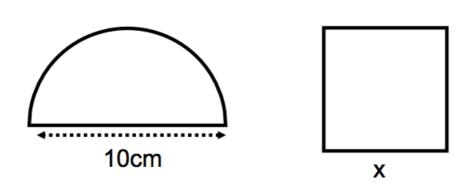




Calculate the area inside the running track.

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The semi-circle and square have the same area.

Calculate the side length of the square.

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