

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

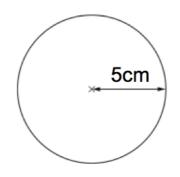
www.corbettmaths.com/contents

Videos 40 and 59



1. Shown is a circle with radius 5cm.





Work out the area of the circle.

State the units for your answer. Give your answer to 2 decimal place.

(3)

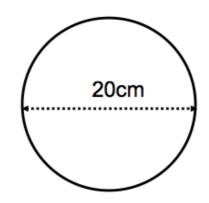
2. A circle has radius 3cm.



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

.....cm² (2) 3. A circle has a diameter of 20cm.





Work out the area of the circle. Use $\pi = 3.14$

.....cm² (2)

4. A circular fishpond has radius 2.5m



Calculate the area of the fishpond. Include units for your answer.

(3)

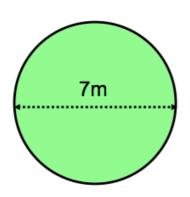
5. A mobile phone mast has a range of 3km.



Calculate the area of the shaded region. Give your answer to 2 decimal places.

>km² (**2**)

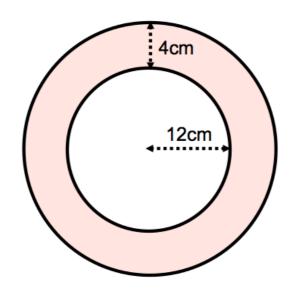
6. A circular flower bed has diameter 7 metres.



Work out the area of the flower bed. Give your answer correct to 1 decimal place.

>m² (**2**)

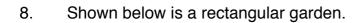
7. Shown below is a circular photo surrounded by a frame.

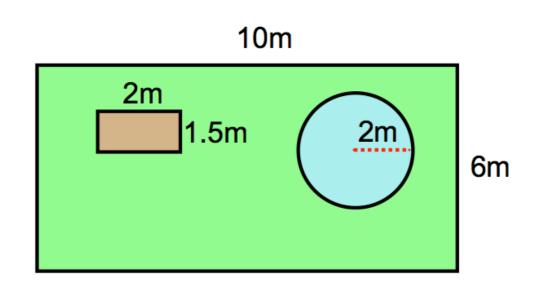


The photo has radius 12cm. The frame has width 4cm.

Work out area of the frame. This area is shaded in the diagram.

>cm² (3)





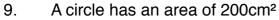
Belle wants to re-seed the grass in her garden.

The garden is 10 metres long and 6 metres wide. There is a vegetable patch that is 2 metres long and 1.5 metres long. There is a circular pond that has radius 2 metres. The remainder of the garden is grass.

Each bag of grass seed costs £4.60 and covers 10m².

Work out the total cost to re-seed the garden.

£.....(6)





Work out the radius of the circle.

.....cm (2)



A circle has an area of 64π cm²



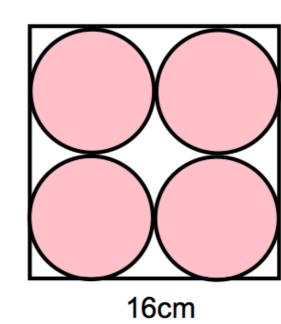
.....cm (2)

11. A circle has a circumference of 40cm.



Work out the area of the circle.

.....cm² (**3**) 12. A logo is designed that has four pink circles within a white square.



The square has side length 16cm.

Find the area of the logo that is white.

.....cm² (5)