

A circle has a diameter of 12 cm.

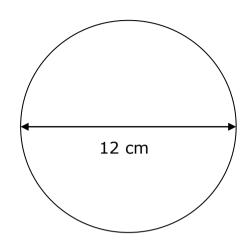


Diagram NOT accurately drawn

Work out the circumference of the circle.

Give your answer correct to 3 significant figures.

$$C = \pi \times d$$

$$we've beengwerd'$$

$$= \pi \times 5$$

$$= 15.70796327$$

$$= 15.7cm$$
(2)

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Here is a tile in the shape of a semicircle.

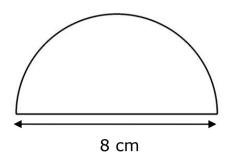


Diagram NOT accurately drawn

The diameter of the semicircle is 8 cm.

Work out the perimeter of the tile.

this word is important!

Give your answer correct to 2 decimal places.

FIRST think about a

(3)

But we only want 1/2 a circle.

whole orde

we need to add

$$= (2.56637061 + 8)$$
  
=  $20.56637061$ 



A circle has a radius of 5 cm.

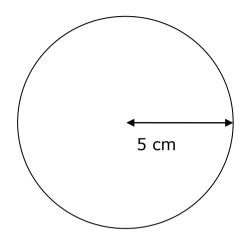


Diagram NOT accurately drawn

Work out the area of the circle.

we have been guen this (2)

Give your answer correct to 3 significant figures.

.78.5. cm<sup>2</sup>

(2)



The diagram shows a circular pond with a path around it.

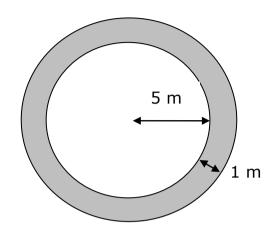


Diagram NOT accurately drawn

The pond has a radius of 5 m.

The path has a width of 1 m.

Work out the area of the path.

Give your answer correct to 3 significant figures.

BIGCIRCLE

$$A = \pi r^2$$
  
=  $\pi \times 6^2$   
= 113 · 0973355 m<sup>2</sup>



$$A = \pi r^2$$

$$= \pi \times 5^2$$

$$= 78.53981634 m^2$$

(3)