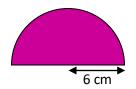


Timester Challenge Area of a Sector



Work out the area of the semicircle with a radius of 6cm. Give your answer in terms of π .

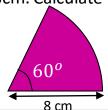


The diagram shows a quarter of a circle. Work out the area of the quarter-circle.



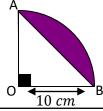


The diagram shows a sector of a circle of radius 8cm. Calculate the area of the sector.



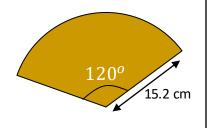
Bronze

The diagram shows a quarter-circle with centre O and radius 10 cm. AB is a chord of the circle. Work out the area of the shaded segment. Give your answer correct to 3 significant figures.



Silver 🖈

The diagram shows a sector of a circle of radius 15.2 cm. Calculate the area of the sector.



The diagram shows a sector of a circle of radius 7 cm. Calculate the area of the shaded region of the circle.

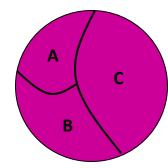


Gold 7



The diagram shows a circle split into three regions: A, B and C. The ratio of the areas of the regions A, B and C is 1:2:3. The radius of the circle is 3 cm.

Calculate the area of region B.





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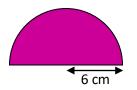


Timester Challenge **Area of a Sector**



Answers

Work out the area of the semicircle with a radius of 6cm. Give your answer in terms of π .



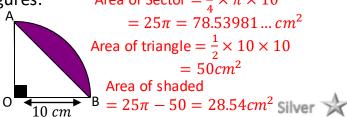
$$\frac{1}{2} \times \pi \times 6^2$$

$$= 18\pi$$

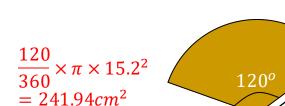
$$= 56.55cm^2$$



The diagram shows a quarter-circle with centre O and radius 10 cm. AB is a chord of the circle. Work out the area of the shaded segment. Give your answer correct to 3 significant Area of Sector $=\frac{1}{4} \times \pi \times 10^2$ figures.



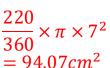
The diagram shows a sector of a circle of radius 15.2 cm. Calculate the area of the sector.



The diagram shows a sector of a circle of radius 7 cm. Calculate the area of the shaded region of the circle. $360 - 140 = 220^{\circ}$

The diagram shows a circle split into three

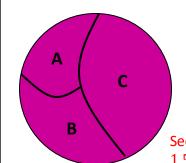








regions: A, B and C. The ratio of the areas of the regions A, B and C is 1:2:3. The radius of the circle is 3 cm. Calculate the area of region B. Area of circle = $\pi \times 3^2 = 9\pi$

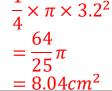


 1.5π 1.5π

 1.5π 1.5π

Section B $1.5\pi \times 2 = 3\pi \ cm^2 \ Gold$



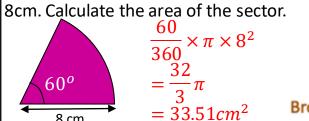


The diagram shows a quarter of a circle. Work

Bronze

The diagram shows a sector of a circle of radius

out the area of the quarter-circle.



Bronze

