


**Area**



The amount of space inside a circle.

$A = \pi r^2$

1. Find the Area



$$A = \pi r^2$$

$$A = \pi 7.6^2$$

$$A = 181.5 \text{ yd}^2$$

2. Find the Area



$$\frac{53}{2} = r$$

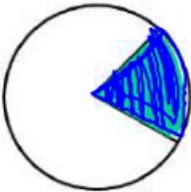
$$26.5 = r$$

$$A = \pi r^2$$

$$\pi 26.5^2$$

$$A = 2206.2 \text{ cm}^2$$

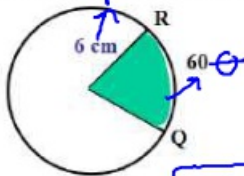
**Area of Sector**



The region bounded by two radii of the circle and their intercepted arc.

Area of Sector =  $\frac{\pi r^2 \theta}{360^\circ}$

4. Find the Area of the Sector

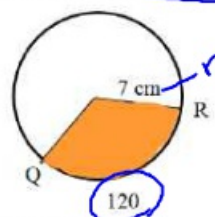


$$A.O.S = \frac{\pi r^2 \theta}{360}$$

$$x = \frac{\pi 6^2 \cdot 60}{360}$$

$$x = 6\pi \text{ or } 18.8 \text{ cm}^2$$

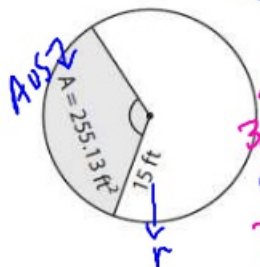
5. Find the Area of the Sector.



$$A.O.S = \frac{\pi r^2 \theta}{360}$$

$$x = \frac{\pi 7^2 \cdot 120}{360}$$

6. Find the central angle



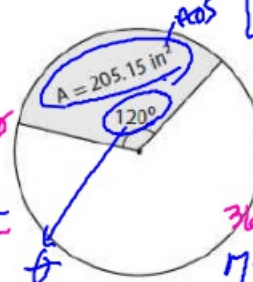
$$A.O.S = \frac{\pi r^2 \theta}{360}$$

$$255.13 = \frac{\pi 15^2 \theta}{360}$$

$$91846.8 = \pi 15^2 \theta$$

$$129.9^\circ = \theta$$

6. Find the radius.



$$x = 51.3 \text{ cm}$$

$$A.O.S = \frac{\pi r^2 \theta}{360}$$

$$205.15 = \frac{\pi r^2 \cdot 120}{360}$$

$$73054 = \pi r^2 \cdot 120$$

$$\sqrt{195.9} = \sqrt{r^2} = r$$

$$r = 14$$