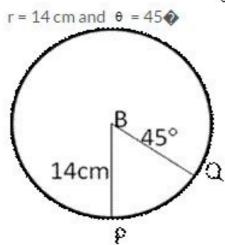


## Question 58:

Area of the sector of circle =  $\frac{\pi r^2 \theta}{360^\circ}$ 



$$\therefore \text{ Area of sector} = \left(\frac{\pi \times 14 \times 14 \times 45}{360}\right) \text{cm}^2$$
$$= \left(24.5\pi\right) \text{cm}^2$$
$$= \left(24.5 \times \frac{22}{7}\right) \text{cm}^2 = 77 \text{ cm}^2$$

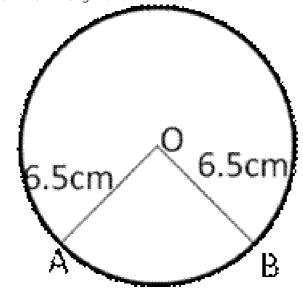
## Ouestion 59:

Length of the arc = 
$$\frac{2\pi r\theta}{360}$$
,  $r = 21$  cm,  $\theta = 150^{\circ}$   
=  $\left(\frac{2\pi \times 21 \times 150}{360}\right)$  cm =  $\left(17.5\pi\right)$  cm  
Length of arc =  $\left(17.5 \times \frac{22}{7}\right)$  cm = 55 cm  
Area of the sector =  $\frac{\pi r^2 \theta}{360}$  =  $\left(\frac{\pi \times 21 \times 21 \times 150}{360}\right)$  cm<sup>2</sup>  
=  $\left(\frac{22}{7} \times 183.75\right)$  cm<sup>2</sup> = 577.5 cm<sup>2</sup>

Question 60: Length of arc of circle = 44 cm Radius of circle = 17.5 cm

$$\frac{1}{2} Ir = \left(\frac{1}{2} \times 44 \times 17.5\right) cm^2$$
Area of sector =  $(22 \times 17.5) cm^2 = 385 cm^2$ 

Question 61: Let sector of circle is OAB Perimeter of a sector of circle =31 cm OA + OB + length of arc AB = 31 cm



6.5 + 6.5 + arc AB = 31 cm arc AB = 31 - 13 = 18 cm

Area of dirde=
$$\frac{1}{2}$$
lr  
=  $\frac{1}{2}$  x 18 x 6.5 = 58.5 cm<sup>2</sup>

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*