

1. Area of sector of circle is given by

- (a) $\frac{\theta}{180} \times \pi r^2$ (b) $\frac{\theta}{360} \times \pi r$ (c) $\frac{\theta}{360} \times \pi r^2$ (d) $\frac{\theta}{180} \times 2\pi r$

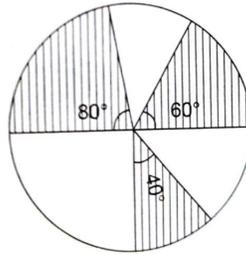
2. Area of sector if its length of arc is 'l' and radius is 'r' is given by

- (a) $l \times r$ (b) $2l \times r$ (c) $l \times r^2$ (d) $\frac{1}{2} l \times r$

3. A chord of a circle of radius 7 cm subtends a right angle at the centre. Find area of minor segments.

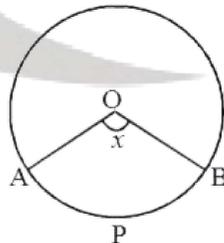
4. The minute hand of a clock is 6.3 cm long. Calculate the area swept by it in 20 minutes.

5. In the given figure, three sectors of a circle of radius 7 cm making angles of 60° , 80° and 40° at the centre are shaded. Find the area of the shaded region.



6. A chord of a circle of radius 21 cm makes an angle of 120° at the centre of the circle. Find the areas of the minor and the major segments. (Take $\pi = 3.14$ and $\sqrt{3} = 1.732$)

7. In the given figure, O is the centre of a circle, if the arc of the sector OAPB is $\frac{5}{36}$ times the area of the circle, then find the value of θ .



8. Find the area of a sector of a circle of radius 28 cm and central angle 45° .

9. Area of a sector of a circle of radius 36 cm is $54\pi\text{cm}^2$. Find the length of the corresponding arc of the sector.

10. A chord of a circle of radius 20cm subtends an angle of 90° at the centre. Find the area of the corresponding major segment of the circle. (Use $\pi = 3.14$)
11. Area of a sector of central angle 200° of a circle is 770cm^2 . Find the corresponding arc of this sector.

