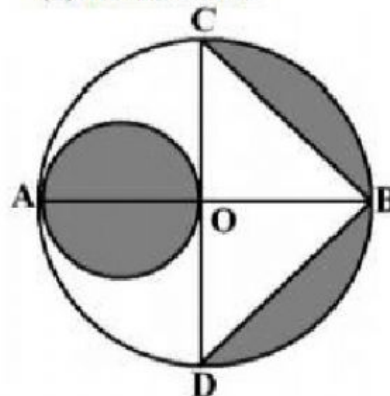
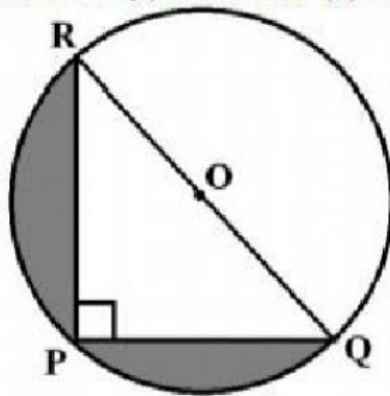


MCQ WORKSHEET-III
CLASS X: CHAPTER – 12
AREAS RELATED TO CIRCLES

1. The perimeter of a sector of a circle of radius 5.6 cm is 27.2 cm. Find the area of the sector.
(a) 44 cm^2 (b) 44.6 cm^2 (c) 44.8 cm^2 (d) none of these
2. The minute hand of a clock is 12 cm long. Find the area of the face of the clock described by the minute hand in 35 minutes.
(a) 265 cm^2 (b) 266 cm^2 (c) 264 cm^2 (d) none of these
3. Find the area of the shaded region in the given figure, if $Pr = 24 \text{ cm}$, $PQ = 7 \text{ cm}$ and O is the centre of the circle.
(a) 164.54 cm^2 (b) 161.54 cm^2 (c) 162.54 cm^2 (d) none of these



4. In the above-sided figure, AB is a diameter of a circle with centre O and $OA = 7 \text{ cm}$. Find the area of the shaded region.
(a) 64.5 cm^2 (b) 61.5 cm^2 (c) 66.5 cm^2 (d) none of these
5. A racetrack is in the form of a ring whose inner circumference is 352 m and outer circumference is 396 m. Find the width of the track.
(a) 4 m (b) 6 m (c) 8 m (d) 7 m
6. The difference between the circumference and the radius of a circle is 37 cm. Find the area of the circle.
(a) 111 cm^2 (b) 184 cm^2 (c) 154 cm^2 (d) 259 cm^2
7. The circumference of a circle exceeds its diameter by 16.8 cm. Find the circumference of the circle.
(a) 24.64 cm (b) 26.64 cm (c) 28.64 cm (d) 22 cm
8. A copper wire when bent in the form of square encloses an area of 484 cm^2 . The same wire is now bent in the form of a circle. Find the area of the circle.
(a) 116 cm^2 (b) 166 cm^2 (c) 616 cm^2 (d) none of these
9. Find the area of the sector of a circle of radius 14 cm with central angle 45° .
(a) 76 cm^2 (b) 77 cm^2 (c) 66 cm^2 (d) none of these
10. A sector is cut from a circle of radius 21 cm. The angle of the sector is 150° . Find the length of the arc.
(a) 56 cm (b) 57 cm (c) 55 cm (d) 58 cm