

Chapter 12 – Areas Related to Circles

MM 20

Class X

Time 1h

1 Mark Each

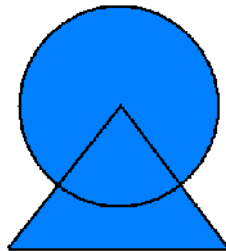
1. A truck travels 1.98 km distance in which each wheel makes 450 complete revolutions. Find the radius of its wheel.
2. If the perimeter and area of a circle are numerically equal then the radius of circle is _____
3. A circular park of diameter 14m is surrounded by a path of width 3.5m. Find the area of park
4. Circumference of a circle is 11cm. Find its area.

2 Marks Each

5. The length of an hour hand of a clock is 10cm. Find area swept by the hour hand in 6minutes.
6. Two circles touch internally. The sum of their areas is $116\pi\text{cm}^2$ and distance between their centres is 6cm. Find the radii of circles.

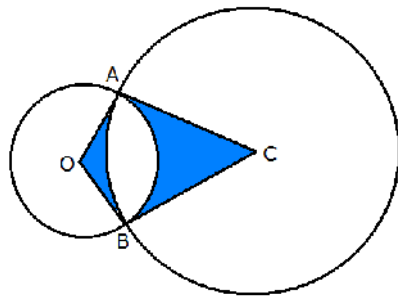
3 Marks Each

7. A circular table cover radius 35cm has an equilateral triangle inscribed in it. Find area of table cover not included in the triangle. [$\sqrt{3} = 1.732$]
8. Find the area of shaded region where equilateral triangle of side 12cm has been drawn with centre of circle of radius 6cm a one of the vertices.



6 Marks Each

9. In figure 2 circles intersect each other at A and B. O and C are the centres of circles angle $AOB = 90^\circ$, angle $ACB = 60^\circ$ and $OA = 4\text{cm}$



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