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Subject: Maths   Class: 10   Topic: Ch.15 Circumference & Area of Circle

Watch video #15 and solve the following exercise:

EXERCISE 15.1

1. The radius of a circle is 3.5 cm. Find the circumference and area of the circle.
2. The circumference of a circle is 44 m. Find the area of the circle.
3. The radius of a semicircular plot is 21 m. Find its area and perimeter.
4. A scooter wheel makes 100 revolutions in covering a distance of 88 m. Find the radius of the wheel.
5. The area of a circular plate is 154 cm^2. Find its circumference.
6. The circumference of a circle is equal to perimeter of a square. If area of the square is 484 m^2 then find the area of the circle.
7. The cost of fencing a circular field at the rate of ₹ 24 per metre is ₹ 5280. The field is to be ploughed at the rate of ₹ 0.50 per m^2. Find the cost of ploughing the field.
8. The radius of a circular grass field is 35 m. There is a 7 m wide path all around it. Find the area of the path.
9. The area enclosed between two concentric circles is :
   (a) πr^2
   (b) $\pi(R + r)(R - r)$
   (c) $\pi(R^2 - r)$
   (d) None of these
10. The radii of two concentric circles are 4 cm and 3 cm respectively. The area enclosed by the two circles is :
   (a) 22 cm^2
   (b) 12 cm^2
   (c) 32 cm^2
   (d) 18 cm^2