Grade 7 – Mensuration (Circles)

Advanced Practice Questions – Set 2 (15)

1 Find the circumference of a circle whose radius is 10.5 cm. **65.94 cm2**
2 If the diameter of a circle is 21 cm, find its area. **65.94 cm2**
3 The radii of two circles are 4 cm and 14 cm. Find the difference of their areas. **566.20cm**
4 A wire of length 88 cm is bent to form a circle. Find the area of the circle. **3407.36cm2**
5 The radius of a circle is reduced by 10%. Find the percentage decrease in its area. **-314%**
6 How many times greater is the circumference of a circle of radius 21 cm than that of radius 7 cm? **3 times bigger**
7 The area of a semicircle is 77 cm². Find its radius. **19294/700**
8 Find the cost of painting a circular board of radius 14 cm at ■3 per cm². **$1848**
9 The circumference of a circular track is 308 m. Find its radius. **41**
10 The radius of a circle is 14 cm. Find the area of a quadrant of the circle. **154**
11 Find the diameter of a circle whose circumference is 132 cm. **42**
12 A square is inscribed in a circle of radius 7 cm. Find the area of the square. **49**
13 The difference between the radii of two circles is 7 cm and the difference of their circumferences is 44 cm. Find the radii.
14 If the area of a circle is increased from 154 cm² to 616 cm², find the percentage increase in area. **+400%**
15 Find the length of the boundary of a semicircular park of radius 21 m. **87**