Instructions for students: The notes provided must be copied to the Maths copy and then do the homework in the same copy.

Class 7-Mathematics

Chapter 16

PERIMETER AND AREA

= 2× r

For a circle with radius r, diameter

Circumference $= 2\pi r$ Area $= \pi r^2$ $\pi = \frac{22}{7} = 3.14$ approx.

Let the diameter of the circle be x cm.

Exercise 16.3

Question 6.Solution:

Circumference of the circle = x + 30 cm. Radius r = $\frac{x}{2}$ cm. $2 \pi r$ = x + 30 $2 x \frac{22}{7} x \frac{x}{2}$ = x + 30 $\frac{22x}{7} - x$ = x + 30 $\frac{22x}{7} - x$ = 30 $\frac{22x - 7x}{7}$ = 30 $\frac{15x}{7}$ = 30 x = $\frac{30 \times 7}{15}$ = 14 cm Radius = $\frac{14}{2} = 7$ cm Question 10: Solution Diameter of the wheel = 56 cm Circumference = πd

	=	$\frac{22}{7} \times 56$	
Total distance	=	22 × 8=	176 cm.
	=	88 km	
	=	88×1000×100 cm	
	=	8800000 cr	n
No.of rotations the wheel takes = $\frac{8800000}{176}$			
		= 50,000	

Home work: Solve Exercise 16.3 Questions 3, 5, 11, 14, 19, 20 in the maths copy.

Practise Exercise 16.3 all problems.