J S U N I L   T U T O R I A L

P U N J A B I   C O L O N Y   G A L I   01

Class 8th   **surface are and volume-2**

1. The curved surface area of a right circular cylinder of height 20 cm is 100 cm². Find the radius of the base of the cylinder.

2. The outer diameter of a pipe is 1.6 m and it is 15 m long. Find
    (i)   its outer curved surface area
    (ii)   the cost of painting the outer surface of the pipe at the rate of Rs.15 per m².

3. Shush cap is in the form of a right circular cone of base radius 15 cm and the height20 cm. Find the area of the sheet required to make 5 such caps.

4. Curved surface area of a cone is 220 cm² and its slant height is 10 cm. Find total surface area of the cone.

5. The surface area of a sphere is 440 cm², what will be its diameter?

6. The radius of the hemisphere is 15 cm. Find the cost of painting the surface at the rate of Rs.1.5 per 50 cm².

7. 12 m² metal sheet is required to make a closed circular tank of radius 0.5 m. Find the height of the tank.

8. Inner and outer radii of a metallic pipe are 2 cm and 2.5 cm. If the length of pipe is 50 cm, find its total surface area.

9. The height of a cone is 7 cm and radius of its base is also 7 cm. Find its curved surface area.

10. The base radius of a cone is twice its height. If the curved surface area of cone is 220 cm², then find the base radius and total surface area of cone.

11. The following sketch shows a running tract 3.5 m wide all around which consists of two straight paths and two semi-circular rings. Find the area of the track.