

JSUNIL TUTORIAL

Class 9th

Mensuration -1

1. Find the lateral surface area and the total surface area of a cuboid whose dimensions are 26m, 14m and 6.5m
2. The dimensions of a room are 9m×8m×6.5m. It has one door of dimensions 2 m×1.5m and two windows each of dimensions 1.5m×1m. Find the cost of white washing the walls at Rs6.40 per m².
3. Find the lateral surface area and the total surface area of a cube of edge 20 cm.
4. A roller is 150cm long has a diameter of 70 cm. To level a play ground it takes 750 complete revolutions. Determine the cost of leveling the play ground at the rate of 75 paise per m².
5. The diameter of a cylinder is 28cm and its height is 40cm. Find the curved surface area, total surface area and the volume of the cylinder.
6. The curved surface area of a cone is 4070cm² and its diameter is 70cm. What is its slant height?
7. The circumference of the base of a cone is 44 cm and its slant height is 25 cm. Find the volume and curved surface of the cone.
8. Find the total surface area of a hemisphere of radius 10cm. $\pi=3.14$
9. If the radius of a balloon is doubled by pumping air into it, find the ratio of the two surface areas.
10. A water tank in the form of a cuboid is 6m long, 5m wide and 4.5m deep. Find the capacity of the tank in litres if 1m³=1000 litres.
11. If the surface area of a cube is 864 cm², find the volume of the cube.
12. The diameters of two cones are equal. If their slant heights are in the ratio 5:4, find the ratio of their curved surface area.
13. 50 circular plates, each of radius 7cm and thickness 12cm are placed one above the other to form a solid right circular cylinder. Find the total surface area and volume of the cylinder.
14. A powder tin has a square base with side 12cm and height 17.5cm. Another is cylindrical with diameter of its base 12cm and height 17.5 cm. Which has more capacity and by how much?
15. Find the volume, curved surface area and the total surface area of a cone whose height the slant height are respectively 6 cm and 10cm respectively. $\pi=3.14$.
16. The radius and height of a right circular cone are in the ratio 5:12. If its volume is 314cm³, find its slant height.
17. The volume of a sphere is 38808 cm³. Find its radius and hence its surface area.
18. The surface areas of two spheres are in the ratio 1:4. Find the ratio of their volumes.
19. A solid metallic cylinder of base radius 3cm and height 5cm is melted to form a cone of height 1cm and base radius 1mm. Find the number of cones formed.
20. A cone is 8.4 cm high and the radius of its base is 2.1cm. It is melted and recast into a sphere. Find the radius of the sphere.

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