

Subject: Maths

Class:10

Topic: Ch.16 Surface Area & Volume

EXERCISE 16.3

1. The height of a cone is 28 cm and radius of its base is 21 cm. Find its curved surface area, total surface area and its volume.
2. The volume of a right circular cone is 1232 cm^3 and its height is 24 cm. Find the slant height of the cone.
3. The diameter of the base of a cone is 14 m and its slant height is 25 m. Find the total surface area of the cone.
4. Radius of the base of a cone is 14 cm and its slant height is 50 cm. Find the curved surface area and the total surface area of the cone.
5. The height of a right circular cone is 8 cm and the radius of its base is 6 cm. Find its volume.
6. The curved surface area of a cone is 1884.4 m^2 and its slant height is 12 m. Find the radius of the cone.

7. The area of the base of a right circular cone is 154 cm^2 . If its slant height is 25 cm then find the height of the cone.
8. The diameters of two cones are equal and their slant height are in the ratio 5 : 4. If the curved surface area of the smaller cone is 400 cm^2 then find the curved surface area of the bigger cone.
9. The slant height and radius of a cone are in the ratio 7 : 4. If its curved surface area is 792 cm^2 , find its radius.
10. The circumference of the base of a 9 m high cone is 44 m. Find the volume of air present in it.
11. A conical vessel whose internal radius is 10 cm and height 18 cm is full of water to be brim. The water is emptied into a cylindrical vessel of internal radius 5 cm. Find the height to which the water rises in the cylindrical vessel.
12. Find the volume of the largest right circular cone that can be cut out of a cube whose edge is 14 cm.
13. The base radius and the height of cone are 7 cm and 24 cm respectively. Find the slant height, curved surface area, total surface area and its volume.
14. The radius of a sector of a circle is 12 cm and its angle is 120° . Its straight edges are joined together to form a cone. Find the volume of this cone.

