

VIDYA SHREE ACADEN SR. SEC. SCHOOL

An English Medium Co.Ed. School | Science & Commerce



W: www.vsajaipur.com | E: vsajaipur@gmail.com M.: +91 9460356652, 8058999828 Add.: 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015

🚮 /vsajaipur | 💟 /vsajaipur | 🤵 /vidyashreeacademy | 📵 /vsa_jaipur

Subject: Maths Class:10 Topic: Ch.16 Surface Area & Volume

EXERCISE 16.2

- The diameter of a cylinder is 14 cm and its 1. height is 15 cm. Calculate the total surface area and volume of the cylinder.
- 2. The height of a right circular cylinder is 7 cm and radius of its base is 3 cm. Find the curved surface area, total surface area and volume of the cylinder.
- The area of circular base of a cylinder is 154 cm² and its height is 21 cm. Find the volume and curved surface area of the cylinder.
- The radii of two right circular cylinders are in the ratio 2:3 and their heights are in the ratio 5: 4. Calculate the ratio of their curved surface areas and the ratio of their volumes.
- 5. A solid cylinder has total surface area of 462 cm². Its curved surface area is one third of its total surface area. Find the volume of the cylinder.
- The curved surface area of a cylinder is 660 cm² and its height is 15 cm. Find the volume of the cylinder.
- The volume of a cylinder is $30\pi~\text{cm}^3$ and the area of its base is 6π cm². Find the height of the cylinder.
- The volume and curved surface area of a cylinder are 1650 cm³ and 660 cm² respectively. Find the radius and the height of the cylinder.
- The height and radius of a cylinder are 7.5 cm and 3.5 cm respectively. Find the ratio between the total surface area and curved surface area of the cylinder.
- A 20 m deep well with diameter 7 m is dug and the earth from digging is evenly spread out to form a platform 22 m by 14 m. Find the height of the platform.
- 30800 cm3 of water can be filled in a cylindrical container. The inner radius of the container is 14 cm. Find the inner curved surface area of the container.

- 12. A hollow cylinder, open at both ends has a thickness of 2 cm. If the inner diameter is 14 cm and its height is 26 cm then calculate the total surface area of the hollow cylinder.
- 13. A hollow cylinder, open at both ends has a height of 20 cm. The inner and outer diameters are 26 cm and 30 cm respectively. Find the volume of this hollow cylinder.