

- 1) In a building there are 24 cylindrical pillars with each having a radius 28 cm and height 4 m. Find the cost of painting the CSA of all pillars at the rate of Rs 8 per meter square.
- 2) The ratio of the radius & height of a cylinder is 2:3. If its volume is 12936 cm^3 , find T.S.A.
- 3) Ratio of CSA and TSA of a cylinder is 1:2, find the ratio between height & radius.
- 4) Find the ratio between the TSA of two cylinders with equal radius and corresponding height are $h_1 = 2r$ & $h_2 = 3r$.
- 5) Case Study 1

A village uses a cylindrical well with a radius of 3 meters and depth of 12 meters to store water. During summer, the water level in the well falls by 4 meters.

Based on the above information, answer the following question;

- i) what is the total volume of the well when it is full? (use $\pi = 3.14$)
- ii) What is the volume of water lost when the level falls by 4 meters?
- iii) what is the remaining volume of water in the well after the fall?

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