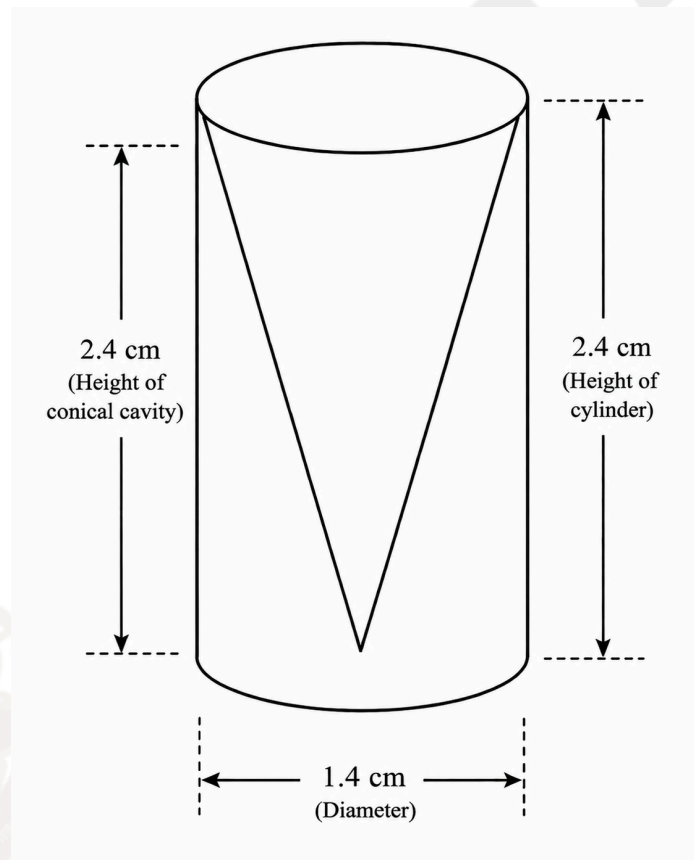


Class 10 Mathematics - Surface Areas and Volumes

Name: _____

Date: _____

Advanced Worksheet 3



Questions

1. Find the radius of the cylinder.
2. Find the slant height of the cone.

3. Find the curved surface area of the cylinder.
4. Find the curved surface area of the conical cavity.
5. Find the total surface area of the remaining solid.
6. Why is the base area of the cylinder included?

Answer Key

1. 0.7 cm
2. $l = \sqrt{(0.7^2 + 2.4^2)}$
 $= 2.5 \text{ cm}$
3. CSA of Cylinder
 $= 2\pi rh$
 $= 10.56 \text{ cm}^2$
4. CSA of Cone
 $= \pi rl$
 $= 5.5 \text{ cm}^2$
5. TSA
 $= \text{CSA of Cylinder} + \text{CSA of Cone} + \text{Base Area}$
 $= 10.56 + 5.5 + 1.54$
 $= 17.6 \text{ cm}^2$
6. The bottom circular face remains exposed.