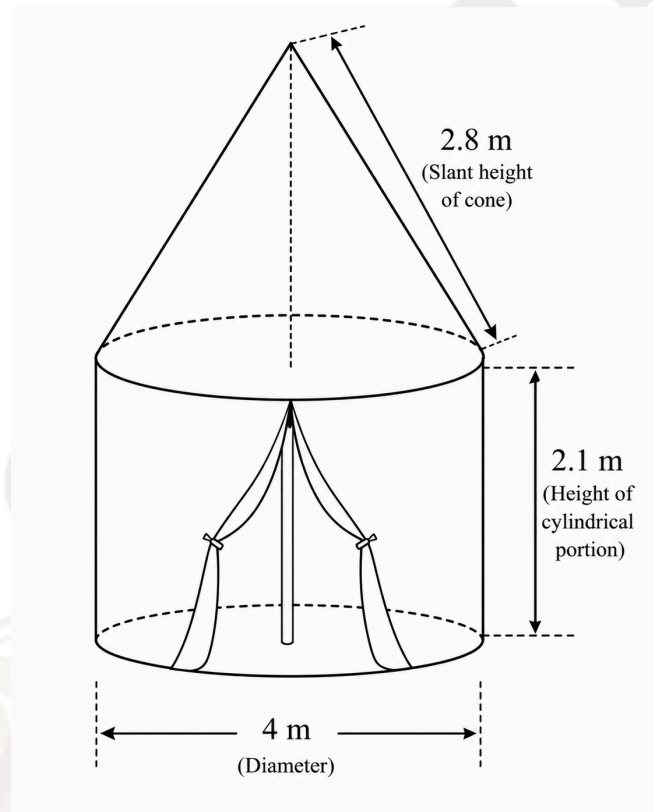


# Class 10 Mathematics - Surface Areas and Volumes

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Advanced Worksheet 2



### Questions

1. Find the radius of the tent.
2. Find the curved surface area of the cylindrical portion.

3. Find the curved surface area of the conical portion.
4. Find the total area of canvas required.
5. If canvas costs ₹500 per m<sup>2</sup>, find the total cost.
6. Why is the base area not included?

### Answer Key

1. Radius = 2 m
2. CSA of Cylinder  
 $= 2\pi rh$   
 $= 2 \times (22/7) \times 2 \times 2.1$   
 $= 26.4 \text{ m}^2$
3. CSA of Cone  
 $= \pi rl$   
 $= (22/7) \times 2 \times 2.8$   
 $= 17.6 \text{ m}^2$
4. Total Canvas Area  
 $= 26.4 + 17.6$   
 $= 44 \text{ m}^2$
5. Cost =  $44 \times 500$   
 $= ₹22,000$
6. The tent is open at the bottom.