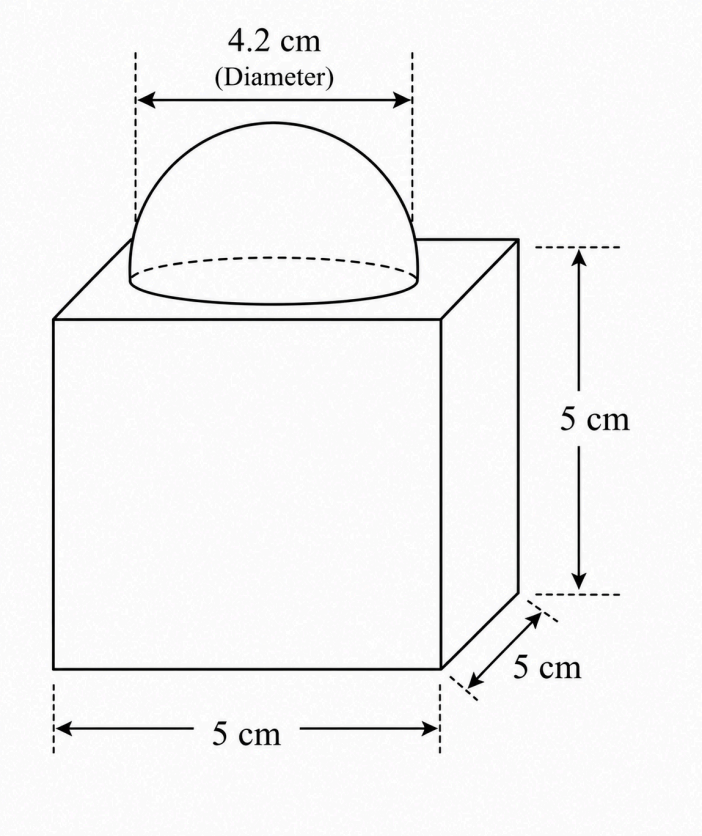
Class 10 Mathematics - Surface Areas and Volumes

Name: _____

Date: _____

Medium Worksheet 3



Questions

1. Identify the solids used in the block.
2. Find the total surface area of the cube.

3. Find the radius of the hemisphere.
4. Why is the circular base of the hemisphere subtracted from the cube's surface area?
5. Find the area of the circular region covered by the hemisphere.
6. State the expression used to find the total surface area of the block.

Answer Key

1. Cube and Hemisphere
2. $6 \times 5^2 = 150$ cm²
3. 2.1 cm
4. It is not exposed.
5. $\pi r^2 = (22/7) \times 2.1^2 = 13.86$ cm²
6. TSA = Surface Area of Cube – Base Area of Hemisphere + CSA of Hemisphere