St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi – 110092
Session: 2024-2025 - Worksheet

Class: VIII	Subject: Maths	Topic:MENSURATION	Worksheet No:20

1. Two cubes are joined end to end. Find the volume of the resulting cuboid, if each side of the cubes is 6 cm.

2. Find the volume of a cube whose total surface area is 486 cm^2 .

3. A roller takes 750 complete revolutions to move once over a level of road. Find the area of road if the diameter of the roller is 84 cm and length is 1 m.

4. Meghna painted the outside of the cabinet of measure 2 m × 3 m × 2.5 m. How much surface area did she cover if she painted all except the bottom of the cabinet and back side?

5. An open cylindrical tank of radius 14 m and height 3 m is made from a sheet of metal. How much sheet of metal is required?

6. How many times do the volume and surface area of a cube increase if its edges get tripled.

7. Ahmed is painting the walls and ceiling of a cuboidal hall with length, breadth and height of 25 m, 12 m and 8 m respectively. From each can of paint 200 m^2 of area is painted. How many cans of paint will she need to paint the room?

8. The height of a cylinder is 15 cm. and curved surface area is 660 cm^2. Find the radius of the cylinder.

9. How many times do the volume and surface area of a cylinder increase if its radius remains same and height is doubled.

10. How many bricks each 25 cm by 15 cm by 8 cm, are required for a wall 32 m long, 3 m high and 40 cm thick?