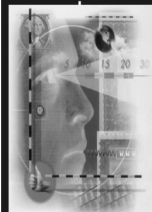


## 8<sup>th</sup> – MENSURATION - II



1. Find the length of the longest pole that can be put in a room of length 10m, breadth 10m and height 5m.
2. Find the side of a cube whose surface area measures to:
  - i. 2904 sq. m
  - ii. 3456 sq.cm
3. Find the lateral surface area and total surface area of a cube each of whose side measures is 12 cm.
4. A cuboid has total surface area of 86 sq. m and its lateral surface area is 32sq.m. Find the area of the base.
5. Suhail wants to paint the four walls of a room having dimensions 20m×12m×6m. From each can of paint 96 sq. m of the area is painted. How many cans of paint will he need to paint the room?
6. A road roller takes 750 complete revolutions to move once over to level a road. Find the area of the road, if the diameter of the road roller is 84cm and its length is 1m.
7. The circumference of the base of a cylinder is 132 cm and its height is 72 cm. Find its lateral surface area.
8. If each edge of a cube is doubled, how many times will its volume increase?
9. How many persons can be accommodated in a hall of length 14 m, breadth 10 m and height 4.5 m, assuming that 3.5 m<sup>3</sup> of air is required for each person?
10. A rectangular tank is 110 cm wide and 70 cm deep. If it can contain 770 litres of water, what is the length of a tank?
11. A cardboard box is 1.4 m long, 75 cm wide and 49 cm high. How many bars of soap can be put into it, if each bar measures 6 cm×5 cm×3.5 cm?
12. The volume of a cylinder is 9240 cm<sup>3</sup> and the circumference of its base is 88cm. Find the height of the cylinder.
13. The volume of a cylinder is 3960 cm<sup>3</sup>. Its curved surface area is 1320 cm<sup>2</sup>. Find the radius of the base and height of the cylinder.
14. A rectangular sheet of a paper of dimensions 25 cm× 14 cm is revolved along its width to form a cylinder. Find the volume of the cylinder so formed.
15. The internal measures of a cuboidal room are 10 m×8 m×4 m. Find the total cost of whitewashing all four walls of the room, if the cost of whitewashing is 10 Rs. per sq. m. What will be the cost of whitewashing, if the ceiling of the room is also white washed?