1]Find the volume of cuboid if the length, breadth and height are 8 cm, 17 cm and

25 cm respectively.

2] The volume of a cylinder is 38016 cm3 . and height is 21 cm. Find the curved

surface area.

3] There is a cubical room whose length measures 6 metres. How many students

can accommodate if each student requires 2.7 m3 . of space?

4] There cubes of sides 3cm, 4 cm and 5 cm respectively are merged together to

form a single large cube. What is the side of the cube so formed?

5] A metal sphere of diameter 16cm is melted and small spheres of radius 2cm

each are cast from the molten metal. How many such spheres will be formed?

6] The outer dimensions of a closed wooden box are 40 cm × 31 cm ×29 cm . If the box is made of wood of 1 cm thickness. Determine the capacity of box.

7] Find the surface area, volume and diagonal of cuboid if the length, breadth and height are 4 cm, 3 cm and 12 cm respectively. Ans: 192 cm2; 144 cm3; 13 cm.

8] A rectangular piece of paper is 22 cm long and 12 cm wide. A cylinder is formed by rolling the paper along itslength. Find the volume of the cylinder.

Ans: 462 cm3

9] A rectangular tank measuring internally 28 metres in length 20 metres in breadth and 10 metres in depth is fullof water. Find the weight of water in metric tons, given that one cubic metre of water weighs 1000 kg. Ans: 5600 metric tons

10] An Auditorium is in cubical form having sides 10 metres. How many students can accommodate if each student requires 2.5 m3 of space? Ans: 400

11] Find the total cost of whitewashing the four walls of a cuboidal room at the rate of Rs.15 per m2 The internal measures of a cuboidal room are length 10 m, breadth 4m and height 4m. Ans: 1680 Rs.

12] The volume of container is 34.5 m3The length and breadth of container are 5 m & 2.3 m respectively. Find the height of the container. Ans: 3 m

13] The diameter of a road roller of length 120 cm is 84 cm. To level a playground it takes 500 complete revolutions. Find the cost of levelling a playground at the cost of Rs.2 per square metre.

14] If the total surface area of a solid right circular cylinder is 880 sq.cm and its radius is 10 cm, find its curved surface area.

15] What is the approximate area of the canvas required to make a conical tent of

radius 30 feet and height 18 feet?

16] The radius and the height of a cylinder are7 cm and 24 cm respectively. Find the area of base and area of the curved surface. Ans: 154 cm2; 1056 cm2

17] Find the total cost of whitewashing the four walls of a cuboidal room at the rate of rs.15 per m2 The internal measures of a cuboidal room are length 10 m, breadth 4m and height 4m. Ans: Rs. 1680 .