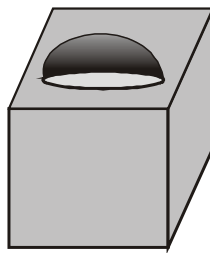


**SURFACE AREAS AND VOLUMES****CUBOID****EXERCISE**

- Q.1 A cube with an edge of 7 cm and a cuboid measuring  $7\text{ cm} \times 4\text{ cm} \times 8\text{ cm}$  are kept on a table. Which shape has more volume?
- Q.2 A cuboid is 9 cm long, 5 cm broad and 4 cm high and a cube has an edge of 5 cm. Which one has greater volume?
- Q.3 What is the volume of a brick of ice-cream with length 25 cm, breadth 10 cm and height 8 cm?
- Q.4 A brick measures 15 cm in length, 8 cm in breadth and 5 cm in height. How many bricks will be used to make a wall of length 15 m, breadth 10 m and height 8 metres?
- Q.5 A pond is 50 m long, 30 m wide and 2 m deep. Find the capacity of the pond in cubic metre.
- Q.6 Harry's book shelf is 40 cm long, 50 cm wide and 90 cm high. What is the volume of the book shelf?
- Q.7 A roller is 150 cm long has a diameter of 70 cm. To level a play ground it takes 750 complete revolutions. Determine the cost of leveling the play ground at the rate of 75 cents per  $\text{m}^2$

- Q.8 The dimensions of a room are  $9\text{ m} \times 8\text{ m} \times 6.5\text{ m}$ . It has one door of dimensions  $2\text{ m} \times 1.5\text{ m}$  and two windows each of dimensions  $1.5\text{ m} \times 1\text{ m}$ . Find the cost of white washing the walls at \$6.40 per  $\text{m}^2$
- Q.9 The adjoining figure shows a decorative block, which is made of two solids --a cube and a hemisphere. The base of the block is a cube with side 5 cm, and hemisphere fixed on the top has a diameter of 4.2 cm. Find the total volume and the total surface area of the block.



- Q.10 A cuboidal block of side 7 cm is surmounted by a hemisphere. What is the greatest diameter the sphere can have ? Also find the surface area of the solid.

## Answers

1. Cube
2. cuboid
3. 2000 cu. cm
4. 20000
5. 3000 cu m
6. 180000 cu. Cm
9.  $144.404 \text{ cm}^3$ ;  $163.86 \text{ cm}^2$
10. 7 cm;  $332.5 \text{ cm}^2$