

$$1 \text{ m}^3 = 1000 \text{ L}$$

- 1) Find volume, TSA, LSA of a cuboid which is 8m long, 6m broad and 3.5m high.
- 2) How many bricks will be required for a wall which is 8m long, 6m <sup>high</sup> ~~thick~~ and 22.5cm thick if each brick measures 25cm  $\times$  11.25cm  $\times$  6cm?
- 3) Find the longest pole that can be put in a room of dimensions 10m by 10m by 5m.
- 4) The volume of rectangular tank is 182  $\text{m}^3$ . If length and breadth be 8m and 6.5m respectively. Find depth.

5. The volume of a reservoir is  $108 \text{ m}^3$ . Water is poured into it at the rate of  $60 \text{ lt}$  per minute. How many time required to fill it?

6. Find the volume of a cube whose TSA is  $486 \text{ cm}^2$ .

7. An open rectangular cistern when measured from outside is  $1.35 \text{ m}$  long,  $1.08 \text{ m}$  broad and  $90 \text{ cm}$  deep and it is made of iron which is  $2.5 \text{ cm}$  thick. Find the capacity of cistern and volume of iron used.

8. The dimension of a metal block are  $2.25 \text{ m}$  by  $1.5 \text{ m}$  by  $27 \text{ cm}$ . It is melted and recast into cubes, each of side  $45 \text{ cm}$ . How many cubes are formed?