

Assignments for Mensuration

Question 1

There are two cuboidal whose dimensions are given below. Which box requires the higher amount of material to make?

Cuboid A: $L=23$, $B=30$, $H=40$

Cuboid B: $L=30$, $B=12$, $H=44$

Question 2

Three cubes, each of edge 2 cm. long are placed together. Find the total surface area of the cuboid so formed?

Question 3

Find the side of a cube whose surface area is 2400 cm^2 .

Question 4

Meghna painted the outside of the cabinet of measure $2 \text{ m} \times 3 \text{ m} \times 2.5 \text{ m}$. How much surface area did she cover if she painted all except the bottom of the cabinet and back side?

Question 5

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?

Question 6

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?

Question 7

The lateral surface area of a hollow cylinder is 4224 cm^2 . It is cut along its height and formed a rectangular sheet of width 33 cm. Find the perimeter of rectangular sheet?

Question 9

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 a road roller is 84 cm and length is 1 m.

Question 10

A rectangular sheet of metal foil is 88 cm. long and 20 cm. wide. A cylinder is made out of it, by rolling the foil along width. Find the volume of the cylinder.

Question 11

The perimeter of the floor of a hall is 250 m. If the height is 4 m, find the cost of painting the four walls at the rate of Rs. 12 per square meter.

Question 12

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

Question 13

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

Question 14

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

Question 15

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