



Assignments OF Mensuration Exercise 4

Question 1

Given a cuboid tank, in which situation will you find surface area and in which situation volume.

- (a) To find how much it can hold.
- (b) Number of paint bottle required to paint it.
- (c) To find the number of smaller tanks that can be filled with water from it.

Question 2

Compare the volumes

a) Cube (side =12 cm)

Cuboid (L=11 cm, B=12 cm, H=13 cm)

b) Cylinder (r=10 cm, H=14 cm)

Cuboid (L=10 cm, B=11 cm, H=14 cm)

Question 3

Find following

- a) the height of a cuboid whose base area is 180 cm² and volume is 900 cm³?
- b) The side of cube whose volume is 64 m³
- c) Volume of the cylinder whose base area is 20 cm² and height is 10 cm

Question 4





A cuboid is of dimensions 60 cm × 54 cm × 30 cm. How many small cubes with side 12 cm can be placed in the given cuboid?

Question 5

Find the height of the cylinder whose volume is 2.54 m³ and diameter of the base is 140 cm?

Question 6

A water tank is in the form of cuboid whose length is 1.5 m, height is 2 m and Breath is 7 m. Find the quantity of water in litres that can be stored in the tank?

Question 7

If each edge of a cube is quadrupled,

- (i) how many times will its surface area increase?
- (ii) how many times will its volume increase?

Question 8

Water is pouring into a cuboidal reservoir at the rate of 60 liters per minute. If the volume of reservoir is 108 m³, find the number of hours it will take to fill the reservoir.

Question 9

If Length, Breath, Height of a cuboid is tripled,

- (i) how many times will its surface area increase?
- (ii) how many times will its volume increase?

Question 10

If radius of cylinder is tripled and height remains same

(i) how many times will its surface area increase?

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(ii) how many times will its volume increase?

