



# Vidya Bhawan, Balika Vidyapith

Shakti Utthan Ashram, Lakhisarai-811311 (Bihar)

Class:- 8th

Date , - 14/02/2021

Subject: Mathematics)

## MENSURATION HOTS

1. If each side of a cube is doubled, how many times will its surface area increase?
2. Find the height of a cuboid whose base area is  $180 \text{ cm}^2$  and volume is  $900 \text{ cm}^3$ .
3. A cuboid is of dimensions  $(60 \times 50 \times 30) \text{ cm}$ . How many small cubes with side  $6 \text{ cm}$  can be placed in the given cuboid?
4. Find the height of the cylinder whose volume is  $1.54 \text{ m}^3$  and diameter of base is  $140 \text{ cm}$ .
5. Find the area of trapezium where length of parallel sides are  $15 \text{ cm}$  and  $25 \text{ cm}$  and the third side measures  $12 \text{ cm}$ .
6. Find the area of rhombus whose diagonals are  $8 \text{ cm}$  and  $10 \text{ cm}$ .
7. If each side of a cube is doubled, how many times will its volume increase?
8. A rectangular sheet of paper is having measures  $11 \text{ cm} \times 4 \text{ cm}$ . It is folded without overlapping to make a cylinder of height  $4 \text{ cm}$ . Find the volume of the cylinder.