



Loreto Convent Intermediate College

Lucknow

WINTER VACATION HOLIDAY HOMEWORK 2024

SUBJECT – MATHEMATICS

CLASS – VIII

Mensuration

- 1.Q 1 Find the volume of a cuboid whose length is 8 cm, breadth 6 cm and height 3.5 cm.
- 2.Find the altitude of a trapezium, the sum of the lengths of whose bases is 6.5 cm and whose area is 26 cm^2 .
3. Find the height of a cuboid whose volume is 275 cm^3 and base area is 25 cm^2 .
4. Find the area of a rhombus whose diagonals are of measurements 6 cm and 8 cm.
5. Find the volume of the cylinder whose base diameter is 14 cm and height is 10 cm.
- 6.Find the area of a triangle whose base is 4 cm and altitude is 6 cm.
- 7.Find the total surface area of a cube whose volume is 343 cm^3 .
8. Find the side of a cube whose surface area is 2400 cm^2 .
- 9.How many bricks will be required for a wall which is 8 m long, 6m high and 22.5 cm thick, if each brick measures 25 cm x 11.25 cm x 6 cm?
10. The diameter of garden roller is 1.4 m and it is 2 m long. How much area will it cover in 5 revolutions?
11. Find the volume of a cuboid whose length is 8 cm, width is 3 cm and height is 5 cm.
- 12.A cylindrical tank has a capacity of 5632 m^3 . If the diameter of its base is 16 m, find its depth.
13. Find the volume of 64 cubes whose one side is 4 cm.
14. Find the volume of a cylinder whose base radius is 14 cm and height is 35 cm.
- 15.Find the total surface area of a cylinder whose base radius is 8 cm and height is 14 cm.
- 16.Find the area of a rhombus whose diagonals are of lengths 20 cm and 16 cm.



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17. Find the height of cuboid whose volume is 490 cm^3 and base area is 35 cm^2 .
18. The diagonal of a quadrilateral shaped field is 24 cm and perpendicular dropped on it from the remaining opposite vertices are 6 m and 12 m. Find the area of the field.
19. Three metal cubes of sides 3cm, 4cm and 5cm are melted and recast in a new cube. Find the cost of painting the surfaces of the new cube at the rate of ₹2.50 per square cm.
20. A godown is in the form of a cuboid of measures 60 m x 40 m x 20 m. How many cuboidal boxes can be stored in it if the volume of one box 0.8 m^3 ?



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