



INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS CH: 11 Mensuration

Name: _____

Date: _____

Class: VIII Sec: ____

1. The area of the floor of a room is 67.5 sq.m . Its volume is 270 m^3 . Find the height of the room.
2. A water tank is $3\text{m } 50\text{cm}$ long, 2 m wide, and $1\text{m } 50\text{cm}$ deep. How many litres of water can it hold?
3. A pillar is in the shape of a cylinder has 21 cm radius and 3 m height. Find the curved surface area and the volume of the pillar.
4. A well is dug whose diameter is 4 m and the depth is 10m . Find the quantity of earth taken out? Calculate the cost of plastering the curved (inner) surface at ₹ 5.00 per sq.m .
5. The circumference of the base of a right circular cylinder is 176cm . If the height of the cylinder is 1m , find the lateral surface area of the cylinder.
6. How many cubes of sides 6m can be cut from a cuboid measuring $18\text{m} \times 15\text{m} \times 8\text{m}$?
7. The area of a trapezium is 78cm^2 . If the two parallel sides are 12cm and 8 cm , then find the height of the trapezium?
8. Find the edge of the cube whose volume is 3375m^3 .
9. The volume of a cylinder is 1100cm^3 and the radius of its base is 5cm . Find the curved surface area.
10. The radius and height of a right circular cylinder are in the ratio $5:7$. If its volume is 550m^3 , find its radius?



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11. A rectangular sheet of paper of dimensions 66cm by 15cm is rolled along its length to form a right circular cylinder of height 15cm. Find the volume of the cylinder so formed.
12. The surface area of a cuboid is 1372cm^2 . The dimensions of the cuboid are in the ratio 4: 2: 1. Find its dimensions and volume.