

By. Er. Dharmendra Sir

7974073108, 9584873492

DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

VOLUMES AND SURFACE AREAS

SESSION -2024-25

CLASS - 9th

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Time: 1 hr Volume and Surface area mm!

Q.1. A cone is 8.4 cm high and the radius of its base is 2.1 cm. It is melted and recast into a sphere. Find the radius of sphere?

Q.2. The radii of two cylinders are in the ratio of 2:3 and their heights are in the ratio of 5:3. Find the ratio of their volumes.

Q.3. The Lateral surface area of a cube is 256 m^2 . Find the volume of the cube?



Q.4. The radius of a hemisphere balloon increase from 6 cm to 12 cm as air is being pumped into it. The ratio of the surface areas of the balloon in the two cases: (Find)



Q.5. The volume of the largest right circular cone that can be fitted in a cube whose edge is 2r equal to the volume of a hemisphere radius r .
(Prove)

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Q. 6. A cone, a hemisphere and a cylinder stand on equal bases and have the same height. The ratio of their volumes is 1:2:3. (Prove)

Q. 7. If the radius of a cylinder is doubled and height is half, the volume will be doubled (prove)



Q. 8. How many square metres of Canvas is required for a conical tent whose height is 3.5 m and the radius of the base is 12 m?

Q. 9. A shopkeeper has one spherical ladoo of radius 5 cm, with the same amount of material, how many laddoos of radius 2.5 cm can be made?

Q. 10. A right angled triangle with side 6 cm, 8 cm, and 10 cm is revolved about the side 8 cm. Find the volume and the curved surface of the solid so formed.



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