



# MATHS

## BOOKS - CHETANA MATHS (MARATHI ENGLISH)

### SURFACE AREA AND VOLUME

#### Example

1. Side of a cube is 4 cm. Find ratio of its total surface area and vertical surface area.



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2. Volume of a cube is  $1000\text{cm}^3$ . Find its side.



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3. Find volume of a cuboid with dimensions  $30\text{cm}$ ,  $18\text{cm}$ ,  $10\text{cm}$ .



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4. Radius of sphere is 7 units. What is its volume?



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5. Write formula for total surface area and volume of a solid hemisphere.



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6. Find radius of a cone with slant height 13 cm and perpendicular height 12 cm.



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7. Find the surface area of sphere if radius is 9 cm.



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8. If radius is 7 cm and height is 10 cm, then what is curved surface area of cylinder?



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9. If perpendicular height of cone is 8 cm and radius 15 cm, then find its slant height.



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**10.** Find the total surface area of a cube whose volume is  $1000\text{cm}^3$ .



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**11.** Volume of a cone is 6280 cubic cm. Find its perpendicular height if its radius is 20 cm.



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**12.** Volume of a cuboid is  $300\text{cm}^3$ . Find its length if its breadth is 6 cm and height is 5 cm.



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**13.** Volume of a cube and a cuboid are equal. Find the height of cuboid if its length is 12 cm and breadth is 3 cm. Also, side of the cube is 6 cm.



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**14.** For a sphere, surface area is 154 sq.cm. Find its volume.



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**15.** Volume of a hemisphere is  $18000\pi cm^3$ . Find its diameter.



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**16.** The total surface area of a cube is 5400 sq.cm. Find its vertical surface area.



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**17.** Ratio of length, breadth and height of cuboid are in the ratio 5:2:1. Its volume is  $1250\text{cm}^3$ . Find its dimensions.



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**18.** Area of base of a cylinder is  $100\text{cm}^2$ . Its height is  $5\text{cm}$ . Find its volume.



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**19.** A cylinder with base radius  $7\text{cm}$  has curved surface area as  $110\text{cm}^2$ . Find its volume.



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