

Find the volume, the total surface area and the lateral surface area of a cuboid which is 15 m long, 12 m wide and 4.5 m high.





Val = Crbxh

Total Suffice: 16 +16+ 64+6h . 2 Llb fbhflh

= (2b + 20)xh

letylogy = 60° + BFAC + COUNT + ADME

AGON of Jours : [2((+b)xh)

How many bricks will be required to construct a wall 13.5 m long, 6 m high and 22.5 cm thick? It is being given that each brick measures (27 cm  $\times$  12.5 cm  $\times$  9 cm)?

## 13.4 Surface Area of a Right Circular Cone









T.S.A = TR(R+1)

1. Diameter of the base of a cone is 10.5 cm and its slant height is 10 cm. Find its curved



2. Find the total surface area of a cone, if its skart height is 21 m and diameter of its base is Mm

R= 12m TSA = tTR[R+1) . 1244.57m2

3. Curved surface area of a cone is 308 cm² and its slant height is 14 cm. Find (i) radius of the base and (ii) total surface area of the cone.

4. A conical tent is 10 m high and the radius of its base is 24 m. Find (ii) slant height of the tent.

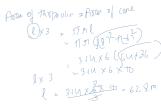
(ii) cost of the canvas required to make the tent, if the cost of 1 m² canvas is ₹ 70.



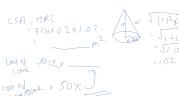


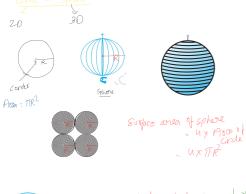
5. What length of tarpaulin 3 m wide will be required to make conical tent of height 8 m and base radius 6 m? Assume that the extra length of material that will be required for stitching margins and wastage in cutting is approximately 20 cm (Use  $\pi = 3.14$ ).

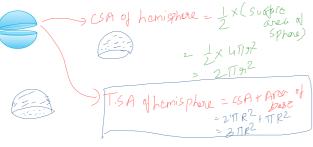




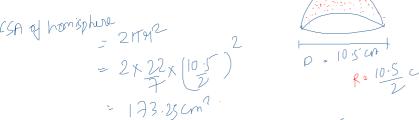
cones made of recycled carefroard. Each cone has a base diameter of 40 cm and height 1 m. If the outer side of each of the cones is to be painted and the cost of painting is  $\overline{\chi} = 12 \, \mathrm{pcm}^{-1}$ , what will be the cost of painting all these cones? (Use  $\pi = 3.14$  and take  $\sqrt{1.04} = 1.02$ 





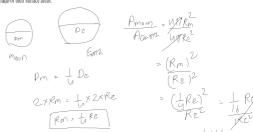


 A hemispherical bowl made of brass has inner diameter 10.5 cm. Find the cost of tin-plating it on the inside at the rate of ₹ 16 per 100 cm².





7. The diameter of the moon is approximately one fourth of the diameter of the earth. Find the ratio of their surface areas.



 A hemispherical bowl is made of steel, 0.25 cm thick. The inner radius of the bowl is 5 cm. Find the outer curved surface area of the bowl.

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- A right circular cylinder just encloses a sphere of radius r (see Fig. 13.22). Find
- riadius r (see Fig. 13.22), Find

  (i) surface area of the sphere,
  (ii) curved surface area of the cylinder,
  (iii) ratio of the areas obtained in (i) and (ii).



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