

1. Surface area of a cuboid is area is area of \_\_\_\_\_
2. Every cuboid is a cube? yes / no why?
3. Write equation giving relation between slant height, height and radius of a cone

**Section B 2 marks each**

4. A right circular cylinder just encloses a sphere of radius  $r$ . Find ratio of the surface area of the sphere and curved surface area of the cylinder.
5. The radius of the first sphere is one tenth of the radius of the second sphere. Find ratio of their volumes

**Section C 3 marks each**

6. 125 solid iron spheres, each of radius  $r$  and surface area  $S$  are melted to form a sphere with surface area  $Q$ . Find the (i) radius  $R$  of of the new sphere, (ii) ratio of  $S$  and  $Q$
8. A river 4 m deep and 50 m wide is flowing at the rate of 5 km per hour. How much water will fall into the sea in 25 minutes?

**Section D 6 marks each**

8. A right triangle ABC with sides 3 cm, 4 cm and 5 cm is revolved about the side 3 cm. Find the volume of the solid so obtained. If the triangle ABC above is revolved about the side 4 cm, then find the volume of the solid so obtained. Find also the ratio of the volumes in the Two cases
9. Find the cost of painting a cylindrical pipe 10 m long with inner radius 21cm and outer radius 28 cm all over at the rate of Rs 45 per 100 square cm

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