

1) An aquarium is in the form of a cuboid whose external measures are $80\text{ cm} \times 30\text{ cm} \times 40\text{ cm}$. The base, side faces and back face are to be covered with a colour paper. Find the area of the paper needed?

2) In a building there are 24 cylindrical pillars. The radius of each pillar is 28 cm and height is 4 m . Find the total cost of painting the curved surface area of all pillars at the rate of $\text{₹ } 8$ per m^2 .

3) Find the height of a cylinder whose radius is 7 cm and total surface area is 968 cm^2 .

4) Find the height of a cuboid whose volume is 275 cm^3 and base area is 25 cm^2 .

5) A godown is in the form of a cuboid of measures $60\text{m} \times 40\text{m} \times 30\text{m}$. How many cuboidal boxes can be stored in it if volume of one box is 0.8 m^3 ?

6) A rectangular paper of width 14 cm is rolled along its width and a cylinder of radius 20 cm is formed. Find the volume of the cylinder.

7) A rectangular piece of paper $11 \times 4\text{ cm}$ is rolled without overlapping to make a cylinder of height 4 cm . Find the volume of the cylinder.

8) The radii of two right circular cylinders are in ratio $2:3$ and their heights are in ratio $5:4$. Calculate the ratio of their volumes.

9) The ratio between the curved surface area and total surface area of a right circular cylinder is $1:2$. Find the ratio between height and radius of the cylinder.

10) The dimensions of a cuboid are in ratio $2:3:5$ and its total surface area is 248 m^2 . Find its dimensions.

11. The measures of a book are $22 \text{ cm} \times 16 \text{ cm} \times 4 \text{ cm}$. It is to be covered with brown paper. If each book requires 25% more paper for folding how much paper is required to wrap 120 such books?