

ATOMIC ENERGY EDUCATION SOCIETY

CLASS:VIII

MATHEMATICS

11.Mensuration(Worksheet 2/3)

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 coloured paper. Find the area of the paper needed?
2. The internal measures of a cuboidal room are $12\text{ m} \times 8\text{ m} \times 4\text{ m}$. Find the total cost of whitewashing all four walls of a room, if the cost of white washing is Rs.5 per m^2 . What will be the cost of white washing if the ceiling of the room is also whitewashed.
3. 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 Rs.8 per m^2 .
4. Find the height of a cylinder whose radius is 7 cm and the total surface area is 968 cm^2 .
5. Find the side of a cube whose surface area is 600 cm^2 .