

MCQ WORKSHEET-I
CLASS IX: CHAPTER – 13
SURFACE AREAS AND VOLUMES

1. The surface area of a cuboid is
 (a) $2(lb + bh + lh)$ (b) $3(lb + bh + lh)$ (c) $2(lb - bh - lh)$ (d) $3(lb - bh - lh)$
2. The surface area of a cube if edge 'a' is
 (a) $7a^2$ (b) $6a^2$ (c) $5a^3$ (d) $5a^2$
3. The length, breadth and height of a room is 5m, 4m and 3m. The cost of white washing its four walls at the rate of Rs. 7.50 per m^2 is
 (a) Rs. 110 (b) Rs. 109 (c) Rs. 220 (d) Rs. 105
4. The perimeter of floor of rectangular hall is 250m. The cost of the white washing its four walls is Rs. 15000. The height of the room is
 (a) 5m (b) 4m (c) 6m (d) 8m
5. The breadth of a room is twice its height and is half of its length. The volume of room is $512dm^3$. Its dimensions are
 (a) 16 dm, 8 dm, 4 dm (b) 12 dm, 8 dm, 2 dm
 (c) 8 dm, 4 dm, 2 dm (d) 10 dm, 15 dm, 20 dm
6. The area of three adjacent faces of a cube is x, y and z. Its volume V is
 (a) $V = xyz$ (b) $V^3 = xyz$ (c) $V^2 = xyz$ (d) none of these
7. Two cubes each of edge 12 cm are joined. The surface area of new cuboid is
 (a) $140 cm^2$ (b) $1440 cm^2$ (c) $144 cm^2$ (d) $72 cm^2$
8. The curved surface area of cylinder of height 'h' and base radius 'r' is
 (a) $2\pi rh$ (b) πrh (c) $\frac{1}{2} \pi rh$ (d) none of these
9. The total surface area of cylinder of base radius 'r' and height 'h' is
 (a) $2\pi(r + h)$ (b) $2\pi r(r + h)$ (c) $3\pi r(r + h)$ (d) $4\pi r(r + h)$
10. The curved surface area of a cylinder of height 14 cm is $88 cm^2$. The diameter of its circular base is
 (a) 5cm (b) 4cm (c) 3cm (d) 2cm
11. It is required to make a closed cylindrical tank of height 1 m and base diameter 140cm from a metal sheet. How many square meters a sheet are required for the same?
 (a) $6.45m^2$ (b) $6.48m^2$ (c) $7.48m^2$ (d) $5.48m^2$.
12. A metal pipe is 77 cm long. Inner diameter of cross section is 4 cm and outer diameter is 4.4 cm. Its inner curved surface area is:
 (a) $864 cm^2$ (b) $968 cm^2$ (c) $768 cm^2$ (d) none of these