

Surface Areas and Volumes : Worksheet -1

1. Area of an equilateral triangle whose side is 'a' units is _ _ _ _ _ ()
 (a) $\frac{\sqrt{3}}{4}a^2$ (b) $\frac{\sqrt{3}}{2}a$ (c) $\frac{\sqrt{3}}{5}a^3$ (d) None of the above
2. Area of the hexagonal prism whose side is 'a' units is _ _ _ _ _ ()
 (a) $\frac{\sqrt{3}}{4}a^2$ (b) $2 \times \frac{\sqrt{3}}{4}a^2$ (c) $4 \times \frac{\sqrt{3}}{4} \times a^2$ (d) $6 \times \frac{\sqrt{3}}{4} \times a^2$
3. L.S.A. of a cube is _ _ _ _ _ ()
 (a) $4a^2$ (b) $3a^2$ (c) $2a^2$ (d) a^2
4. T.S.A. of a cube is _ _ _ _ _ ()
 (a) $3a^2$ (b) $4a^2$ (c) $5a^2$ (d) $6a^2$
5. Volume of a cube is _ _ _ _ _ ()
 (a) a (b) a^2 (c) a^3 (d) a^4
6. L.S.A. of cuboid is _ _ _ _ _ ()
 (a) $2(l+b)$ (b) $2h(l+b)$ (c) $2(lb+bh+lh)$ (d) None
7. T.S.A. of a cuboid is _ _ _ _ _ ()
 (a) $2(l+b)$ (b) $2h(l+b)$ (c) $2(lb+bh+lh)$ (d) None
8. Volume of cuboid is _ _ _ _ _ ()
 (a) $2(l+b)$ (b) $2h(l+b)$ (c) $2(lb+bh+lh)$ (d) lbh
9. Diagonal of a cuboid is _ _ _ _ _ ()
 (a) $4(l+b+h)$ (b) $\sqrt{l^2+b^2+h^2}$ (c) $\sqrt{l^2+b^2}$ (d) $\sqrt{b^2+h^2}$
10. Perimeter of the base $\times$ height of the prism = _ _ _ _ _ ()
 (a) L.S.A. (b) T.S.A. (c) Volume (d) A or B

