

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

