

Surface Areas and Volumes : Worksheet -3

1. If the perimeter of base of a cylinder is 44 cm. and its height is 10 cm, then its curved surface area is _____ ()
 (a) 440 sq.cm (b) 44 sq.cm (c) 4.4 sq.cm (d) 44 sq.cm
2. The volume of the cylinder is _____ ()
 (a) a^3 (b) lbh (c) $\pi r^2 h$ (d) $\frac{1}{3} \pi r^2 h$
3. The lateral surface area of the cylinder is _____ ()
 (a) $4a^2$ (b) $2h(l+b)$ (c) $2\pi r h$ (d) $\pi r(s+r)$
4. The total surface area of the cylinder is _____ ()
 (a) $6a^2$ (b) $2(lb+bh+lh)$ (c) $2\pi r(h+r)$ (d) $\pi r s$
5. Base area of a right circular cylinder is _____ ()
 (a) $2\pi r$ (b) πr^2 (c) $2\pi r^2$ (d) All the above
6. Perimeter of the base of right circular cylinder is _____ ()
 (a) $2\pi r$ (b) πr^2 (c) $2\pi r^2$ (d) All the above
7. Ring area formula is _____ ()
 (a) $\pi R^2 r^2$ (b) $\pi (R^2 + r^2)$ (c) $\pi (R^2 - r^2)$ (d) $\pi \frac{R^2}{r^2}$
8. If the height of two cylinders are equal with different radii, then their L.S.A. are in the ratio of _____ ()
 (a) $R : r$ (b) $R^2 : r^2$ (c) $\sqrt{R} : \sqrt{r}$ (d) None
9. If the heights of two cylinders are equal with different radii R and r then their volume are in the ratio of _____ ()
 (a) $R : r$ (b) $R^2 : r^2$ (c) $\sqrt{R} : \sqrt{r}$ (d) None
10. If the radii of two cylinders are equal and their heights are H and h then their curved surface are in the ratio of _____ ()
 (a) $H : h$ (b) $H^2 : h^2$ (c) $H^3 : h^3$ (d) $\sqrt{H} : \sqrt{h}$

