Class 9 Maths Chapter 13 Surface Areas and Volumes MCQs - Practice Questions

1. The surface area of 3D shapes is measured in _____.
(a) Units
(b) Square units
(c) Cubic units
(d) None of the above

2. If "a" is the side of the cube, then the surface area of cube is ____.
(a) $4a^2$
(b) $5a^2$
(c) $6a^2$
(d) None of the above

3. The volume of 3D shape is measured in _____.
(a) Units
(b) Square units
(c) Cubic units
(d) None of the above

4. If "r" is the radius and "h" is the height of the cylinder, then the formula to calculate the volume of cylinder is _____.
(a) r^2h
(b) $\pi r^2 h$
(c) $(1/3)\, \pi r^2 h$
(d) $(1/2)\, \pi r^2 h$

5. If the side length of the cube is 2 cm, then the volume of cube is ____ cm³
(a) 6
(b) 8
(c) 12
(d) 18

6. If the radius is 3 cm and height is 5 cm, then the volume of cone is ___ cm³
(a) 15π
(b) 17π
(c) 21π
(d) 23π

7. If "r" is the radius of hemisphere, then the TSA of hemisphere is

(a) $2\pi r^2$

(b) $3\pi r^2$

(c) $4\pi r^2$

(d) None of the above

8. The curved surface area of a cone is ____

(a) $(1/2)\ \pi rl$

(b) πrl

(c) $2\pi rl$

(d) $3\pi rl$

9. If the radius of the sphere is 3cm, then the volume of sphere is _____.

(a) 36π

(b) 38π

(c) 40π

(d) 41π

10. The total surface area of a cylinder is

(a) $2\pi rh$

(b) $2\pi r\ (r + h)$

(c) $4\pi rh$

(d) $4\pi r\ (r + h)$

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1 - (b)	2 - (c)	3 - (c)	4 - (b)	5 - (b)
6 - (a)	7 - (b)	8 - (b)	9 - (a)	10 - (b)