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## SURFACE AREA & VOLUME WORKSHEET

1 The sum of the area of all faces for any 3d shape object is called a surface area.

- a. True
- b. False

Q.2 The volume of a cube that has each side measures 3 ft is \_\_\_\_\_

Q.3 The edge length of a cube is 8units. Its surface area is \_\_\_\_\_

Q.4 The capacity of a cubical swimming pool is 27000 liters. Find the depth of the swimming pool.

- (a) 10 meters
- (b) 30 meters
- (c) 20 meters
- (d) 10 meter

Q.5 The surface area of a sphere having a radius of 3.5 units is\_\_\_\_\_.

Q.6 What is the ratio of the volume of a sphere to the volume of a cylinder. If  $Cylinder_{radius} = Cylinder_{height} = Sphere_{radius}$ .

Q.7 The surface area of a cylinder is 565.48 sq. units having a radius to height ratio of 2:3 find the height and radius of a cylinder.



Q.8 The pillars in a school auditorium are in a cylindrical shape. Calculate the amount of concrete-filled up in 8 such pillars with radius and height as 5 m and 12 m respectively.

Q.9 A chocolate box is in the shape of a triangular prism that has a triangular end with a base of 15 units and a height of 10 units. The length of each side of the box is 12 units and the width of each side of a box is 10 feet. What is the surface area of the cardboard box of chocolates?

Q.10 The radius and height of a cylinder are the same as the radius and height of a cone. Determine the ratio of the volume of the cylinder to the volume of the cone.

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in an interesting way,  
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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	True
2)	$27\text{units}^3$
3)	384 sq. units
4)	30 meters
5)	153.93 sq. units
6)	3:4
7)	H = 9 units, r = 6 units
8)	$7539.76\text{ m}^3$
9)	510 sq. units
10)	3:1