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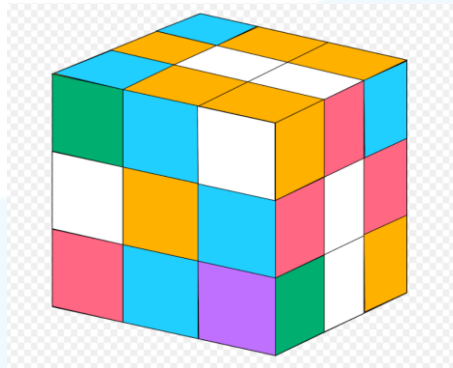


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1. The volume of a cube is 125 cubic units. The surface area of the cube is _____.
2. The volume of a cuboid is 648 cubic units, and the ratio of the length, breadth, and height of the cuboid is 2 : 3 : 4. What is the length of the largest pole that it can accommodate?
3. The side of a cube decreases by 20%. The percentage decrease in the volume of the cube is _____.



4. The capacity of a cubical swimming pool is 8000 liters. Find the depth of the swimming pool.
(a) 10 meters (b) 6 meters (c) 2 meters (d) 1 meter
5. Find the volume of a cone having a radius 0.35 times its height. The height of the cone is 20 meters.
6. Find the volume of a sphere of largest chord of length 42 units.
7. The length of a long circular rod has been made half and the diameter has been doubled. Find the ratio of the volume of the new circular rod, to the old circular rod.



8. The ratio of surface areas of two spheres is $49 : 64$. What is the ratio of their volume?
9. Find the number of balls each of diameter one unit, which can be cut out from a larger cube of side 4 units.
10. The ratio of the length, breadth, and height of a cuboid is $2 : 3 : 4$, and the length of its diagonal is $\sqrt{116}$ units. Find the volume of the cuboid.
11. The ratio of volume of two cubes is $8 : 27$. What is the ratio of surface area of the two cubes?
12. If the edge of a cube is decreased by 10% , what is the percentage decrease in its volume?
13. The Volume of a hemi-sphere can be obtained by multiplying the surface area of the sphere by _____.
(a) $r/2$ (b) $r/4$ (c) $3/r$ (d) $6/r$
14. The area of the base of the cone is 90π and its height is 10 units. Find its volume.
15. The height of a cone is 8 units and the diameter of the cone is 30 units. Find the volume of the cone.
16. What is the ratio of the volume of a sphere, and the volume of a cylinder?
17. What is the volume of a cylinder which can be carved out of a cube of edge 7 units?
18. What is the sum of the surfaces areas of the two hemispheres which can be obtained by cutting a sphere of radius 21 units?
19. Convert 8000 meter cubes into liters.
20. The difference between the volume of a cone and a cylinder is 100 cubic units. Find the volume of the cylinder.

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in an interesting way,
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"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)	150 square units
2)	16.15 units
3)	48.8%
4)	(c) 2 meters
5)	$3080/3$ cubic meters
6)	38,808 cubic units

7)	$1 : 2$
8)	$343 : 512$
9)	64
10)	192 cubic units
11)	$4 : 9$
12)	23.1%
13)	(d) $6/r$

14)	1500π cubic units
15)	40π cubic units
16)	$4r : 3h$
17)	269.5 square units
18)	11,088 square units
19)	8000,000 liters
20)	150 cubic units

FUN FACT

1. Volume is a three dimensional quantity which helps to measure the space, and has a unit of cubic units.
2. Comparing the volume of the earth and the sun, about 1.3 million earths can fit in the sun.
3. The volume of earth is 1,083,206,916,846 cubic kilometres.

