

Get better at Math.  
Get better at  
everything.



Come experience the Cuemath methodology and ensure your child stays ahead at math this summer.



**Adaptive  
Platform**



**Interactive Visual  
Simulations**



**Personalized  
Attention**

For Grades 1 - 10



LIVE online classes  
by trained and  
certified experts.

Get the Cuemath advantage

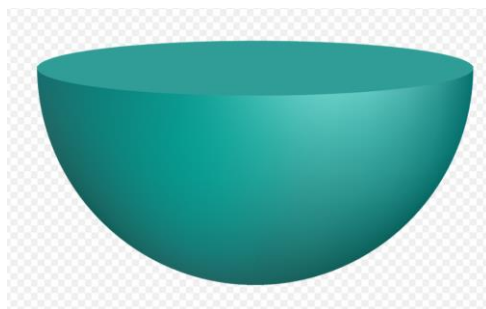
**Book a FREE trial class**

**7<sup>th</sup> GRADE VOLUME WORKSHEETS**

1. The diagonal of a cube having a volume of 125 cubic units is \_\_\_\_.
2. The length of an edge of a hollow cube open at one face is 8 meters. What is the length of the largest pole that it can accommodate?  
(a)  $5\sqrt{3}$  meters      (b) 3 meters      (c)  $8/\sqrt{3}$  meters  
(d)  $8\sqrt{3}$  meters
3. If each edge of a cube is reduced by 20%, find the percentage decrease in the volume of the cube?  
(a) 33.8%      (b) 50%      (c) 48.8%      (d) 72.8%
4. The capacity of a tank of dimensions 20m x 40m x 5m is \_\_\_\_.  
(a) 20000 liters      (b) 30000 liters      (c) 40000 liters  
(d) 60000 liters
5. Calculate the volume of a cone having a radius of 3 units, and a slant height of 5 units.



6. The volume of a hemisphere of diameter of 21 units is \_\_\_\_.



7. Find the cost of digging a cylindrical pit 10.5 meters deep, 7 meters diameter at the rate of \$50 per  $m^3$ .

8. A conical tent is 24m high and the radius of its base is 14m. Find the slant height of the tent.
9. Find the volume of a sphere having a diameter of 10.5 m.
10. The water flows at a speed of 0.8m/sec from a pipe of radius 0.5 meter. Find the amount of water which flows out from the pipe in 10 minutes.
11. Find the volume of a right circular cone of height 8 units and base diameter 12 units is:  
(a)  $60 \pi$  cubic units    (b)  $68 \pi$  cubic units  
(c)  $120 \pi$  cubic units    (d)  $96 \pi$  cubic units
12. The diameter of a sphere is 42 cms. Find its volume.
13. The length, breadth, and height of a rectangular box are in the ratio 2 : 3 : 4. If the height of the box is 20 units, find the volume of the rectangular box.
14. Find the side of a cube having a volume of 4096 cubic units.
15. A cylindrical tank has a diameter of 14 units and a height of 10 units. Find the volume of the cylindrical tank.
16. Find the ratio of the volume of a cylinder and a hemisphere, each having a radius of 17 units, and the height of the cylinder is 30 units.
17. 50 children took a dip in a water tank 25m long and 20m broad on a religious day. If the average displacement of water by a man is 2 cu m, then find the rise in the water level in the tank.  
(a) 2 m            (b) 5 m            (c) 3 m            (d) 4 m
18. How many cubic boxes of side 1 cms, can be placed in a large cubic box of side 3 cms?  
(a) 18            (b) 9            (c) 27            (d) 64

19. The side of a cube is increased by 50%. The percentage change in the volume of the cube is \_\_\_\_.
20. Find the number of lead balls, each 0.4 cm in diameter that can be made from a sphere of diameter 16cm.  
(a) 16,000      (b) 24,000      (c) 50,000      (d) 64,000



**When you learn math  
in an interesting way,  
you never forget.**



**25 Million**

Math classes &  
counting

**100K+**

Students learning  
Math the right way

**20+ Countries**

Present across USA, UK,  
Singapore, India, UAE & more.

## 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."

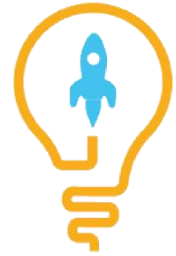
- Kirk Riley

"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

Get the Cuemath advantage

**Book a FREE trial class**

**ANSWERS**

1)	$5\sqrt{3}$ units
2)	(d) $8\sqrt{3}$ metres
3)	(c) 48.8%
4)	(c) 40000 cubic meters
5)	$36\pi$ cubic units
6)	1212.75 cubic units

7)	\$ 20,212.50
8)	25m
9)	<i>1212.75 cubic cms</i>
10)	300 $\pi$ cubic meters
11)	(d) 96 $\pi$ sq cms
12)	<i>38,808 cubic cms</i>
13)	30,00 cubic units

14)	16 units
15)	<i>1540 cubic units</i>
16)	45 : 17
17)	(b) 5 m
18)	(c). 27
19)	237.5%
20)	(d). 64,000



## FUN FACT

1. The volume of three cones equals to the volume of one cylinder.
2. The volume of earth is 1,083,206,916,846 cubic kilometres.
3. For regular shaped three dimensional bodies, the volume is the product of the area of the base and the height.

