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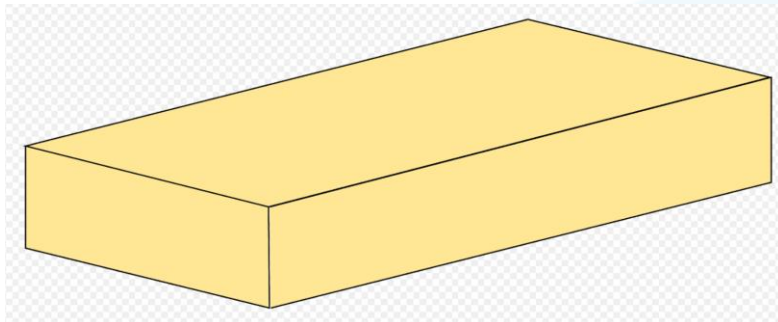
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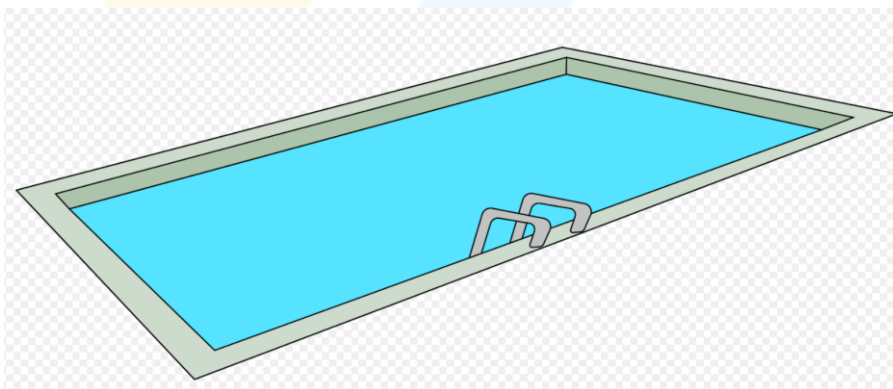
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7<sup>th</sup> GRADE VOLUME WORKSHEETS

1. The surface area of a cube is 24 square units. The volume of the cube is \_\_\_\_\_.
2. The total surface area of a cuboid is 88 square units, and the ratio of the length, breadth, and height of the cuboid is 1 : 2 : 3. What is the length of the largest pole that it can accommodate?  
 (a)  $5\sqrt{3}$  units      (b) 3 units      (c)  $3\sqrt{3}$  units  
 (d) 2 units



3. The length of the rectangle increases by 20%, and the breadth decreases by 10%, and the height is constant. Find the percentage change in the volume of the cuboid  
 (a) 15%      (b) 8%      (c) 20%      (d) 12%
4. The capacity of a cubical swimming pool having a height of 22 meters is \_\_\_\_\_.  
 (a) 12328 cu.m      (b) 10800 cu.m      (c) 10648 cu.m  
 (d) 120560 cu.m



5. The radius of a cone is 10 inches and its height is 3.5 times its radius. The volume of the cone is \_\_\_\_\_.
6. Find the volume of a sphere of largest chord of length 21 units.
7. The length of a long circular rod has been doubled and the diameter has been made half. Find the ratio of the

- volume of the new circular rod, and the old circular rod.
8. The volume of two spheres is  $64 : 125$ . What is the ratio of their surface areas?
  9. Find the number of balls each of diameter 1 inch, can be made from a larger ball of diameter 16 units.
  10. The ratio of the length, breadth, and height of a cuboid is  $1 : 2 : 3$ , and the length of its diagonal is  $\sqrt{224}$  units. Find the volume of the cuboid.
  11. The ratio of areas of two cubes is  $16 : 25$ . What is the ratio of volumes of the two cubes?
  12. If the edge of a cube is increased by 10%, what is the percentage increase in its volume?
  13. The surface area of a sphere can be obtained by multiplying the volume of the sphere by \_\_\_\_\_.  
(a)  $r/2$       (b)  $r/4$       (c)  $2r$       (d)  $3/r$
  14. The area of the base of the cylinder is  $100\pi$  and its height is 15 units. Find its volume.
  15. The slant height of a cone is 13 units and the diameter of the cone is 10 units. The volume of the cone is \_\_\_\_\_.
  16. What is the ratio of the volume of the cone, and the area of the base of the cone?
  17. What is the volume of the right circular cone which can be carved out of a cube of edge 8 units?
  18. What is the volume of a sphere which can be cut out from a hemisphere of diameter 100 units?
  19. The volume of 200 liters is equal to \_\_\_\_\_ cubic meters.
  20. The difference between the volume of a cone and a

cylinder is 200 cubic units. Find 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)	8 cubic units
2)	(d) 2 units
3)	(b) 8%
4)	(c) 10648 cubic units
5)	$110,000/3$ cubic units
6)	4851 cubic units

7)	$2 : 1$
8)	$16 : 25$
9)	4096 balls
10)	384 cubic units
11)	$64 : 125$
12)	33.1%
13)	(d) $3/r$

14)	$1500 \pi$ cubic units
15)	$20 \pi$ cubic units
16)	$h : 3$
17)	$64 \pi / 3$ cubic units
18)	$500000 \pi / 3$ cubic units
19)	0.2 cubic meter
20)	100 cubic units



## FUN FACT

1. Comparing the volume of the earth and the sun, about 1.3 million earths can fit in the sun.
2. The volume of one cubic meter is equal to 1000 liters.
3. The volume of three cones equals to the volume of one cylinder.

