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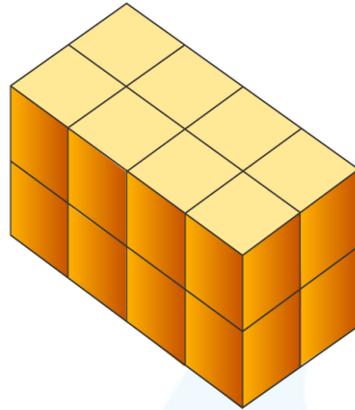
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## Volume Worksheets 8th Grade

- 1) If the volume of 1 block is 1 cubic unit, find the total volume of the given figure.



- 2) What is the volume of a cube that has each side measures 3 ft?
- 3) Calculate the volume of a cuboid whose length, breadth, and height measure 4 in, 3 in and 2 in respectively.
- 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) What is the ratio of the volume of a sphere, and the volume of a cylinder?
- 8) If the surface area of a sphere is  $154 \text{ cm}^2$ , then find the volume of the sphere.
- 9) The pillars in a house are in a cylindrical shape. Calculate the amount of concrete required to build up 21 such pillars with radius and height as 20 cm and 10 m respectively.

- 10) If the radius and height of a cylinder are equal to the radius and height of a cone, then calculate the ratio of volume of the cylinder to the volume of the cone.



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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)	Total volume = $16 \times 1$ cubic unit = 16 cubic units
2)	Volume of cube = $(\text{side})^3 = 3 \times 3 \times 3 = 27$ cubic ft.
3)	Volume of cuboid = $4 \times 3 \times 2 = 24$ cubic inches.
4)	(c) 2 meters
5)	$3080/3$ cubic meters
6)	38,808 cubic units

7)	$4r : 3h$
8)	$179.67 \text{ cm}^3$
9)	$26.4 \text{ m}^3$
10)	3

## FUN FACT

1. Volume usually expressed in units that are the cubes of linear units, such as cubic inches and cubic meters, or in units of dry and liquid measure, such as gallons, bushels, and liters.
2. Do you know?  $450 \text{ cm}^3 =$  Volume of body cells that die in a day!
3. Every physical object occupies a volume, even if it is so thin that it appears to be two-dimensional, like a sheet of paper.

4.

