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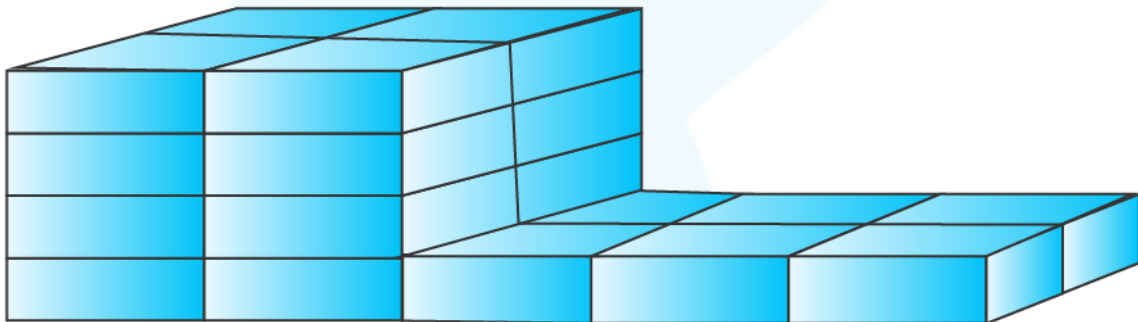
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## VOLUME WORKSHEET

- 1) If the edge of a cube measures 11 units, choose the correct option among the following:
- a. Volume = 131 cubic units
  - b. Volume = 121 cubic units
  - c. Volume = 1221 cubic units
  - d. Volume = 1331 cubic units.

- 2) Find the volume of the given figure by counting the number of cubes, if the volume of each cube is 1 cubic cm:



- 3) What is the volume of a rectangular prism having length, breadth, and depth as  $2\text{ ft} \times 4\text{ ft} \times 5\text{ ft}$  respectively?
- 4) Find the cost of digging a cylindrical pit 10.5 meters deep, 7 meters diameter at the rate of \$50 per  $\text{m}^3$ .
- 5) A conical tent is 24m high and the radius of its base is 14m. Find the slant height of the tent.
- 6) Find the volume of a sphere having a diameter of 10.5 m.
- 7) 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.

- 8) A cylindrical shaped vessel of height 14 inches and radius 6 inches is completely filled with water. A solid cube is dipped in the vessel and the volume of water remaining in the vessel is  $1072 \text{ in}^3$ . Find the side length of the cube.
- 9) The volume of a sphere of radius 6 cm is equal to the volume of a cylinder of height 12 cm. Find the radius of the cylinder.
- 10) Volume of one big sphere is equal to the volume of 8 small spheres. Calculate the ratio of volume of big sphere to volume of small sphere.



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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)	d. 1331 cubic units
2)	$22 \text{ cm}^3$
3)	40 cubic ft
4)	\$20,212.50
5)	25m
6)	<i>1212.75 cubic cms</i>

7)	$300 \pi$ cubic meters
8)	8 inches
9)	4.9 cm
10)	8:1

## FUN FACT

1. Do you know that the volume of a human brain is approx.  $600 \text{ cm}^3$ ?
2. 1 million grains of sugar have a volume of just  $50 \text{ cm}^3$ .
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.

