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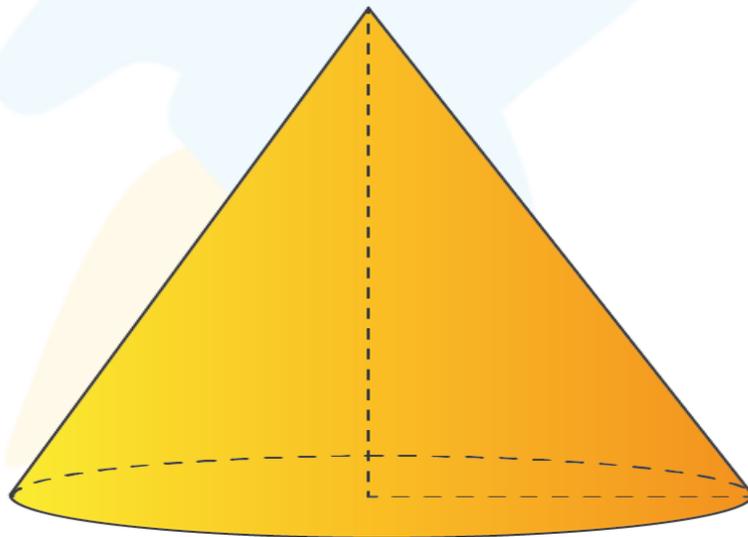
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Volume of a Cone Worksheets

- 1) If $h=r$, what will be the formula for the volume of a cone _____.
- 2) If a square meter is a unit for measuring the area of a cone then a cubic meter is a unit for measuring the _____ of a cone?
 - a. Length.
 - b. Volume.
 - c. Mass.
 - d. density.
- 3) The volume of the cone is 804.25 sq. Inches with a radius of 8 inches and the height of a cone is _____.



- 4) Find the approximate volume of a conical cap with a radius of 6 units and a height of 8 units?
 - a. 29 unit cubed.
 - b. 301.5 unit cubed.
 - c. 268 unit cubed.
 - d. 352 unit cubed.
- 5) A concrete heap is in the form of a cone with a height of 7 m and a diameter of 12 m. Determine its volume.

6) What is the ratio between the volume of a cone and the volume of a cylinder with the same radius and height?

- a. 1:4
- b. 1:3
- c. 1:5
- d. 2:3

7) A cake in the form of a cone has a volume of 80 cubic units and a height of 8 units. What is its diameter?

- a. 1.5 units
- b. 6 units
- c. 6.18 units
- d. 5.25 units

8) The height of the ice cream cone is two times its radius if the radius of a cone is 4 units. Find its volume.

9) A big conical tent having a radius of 18 m and a height of 15 m. If people inside the tent occupy one-fourth volume of a cone. What is the remaining volume of a cone?



10) The surface area of a conical cap is 204.2 sq units with radius 5 units. What is the volume and height of a cone?

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- 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. $\frac{1}{3} \pi r^3$	2. b. Volume	3. 12 inches	4. B.301.6 unit cubed	5. 263.6 units m.
6. b:1:3	7. c. 6.18 in	8. 134.04 unit cubed	9. 3817.05 m ³	10. h= 12 units. V = 314.16 unit cubed

FUN FACT

1. The volume of earth is 1,083,206,916,846 cubic kilometres.
2. Every physical object occupies a volume, even if it is so thin that it appears to be two-dimensional, like a sheet of paper.
3. With the same base and same height of cone and cylinder. The volume of a cone is exactly one-third ($\frac{1}{3}$) of a cylinder's volume.

