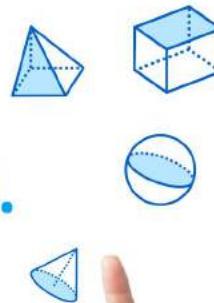




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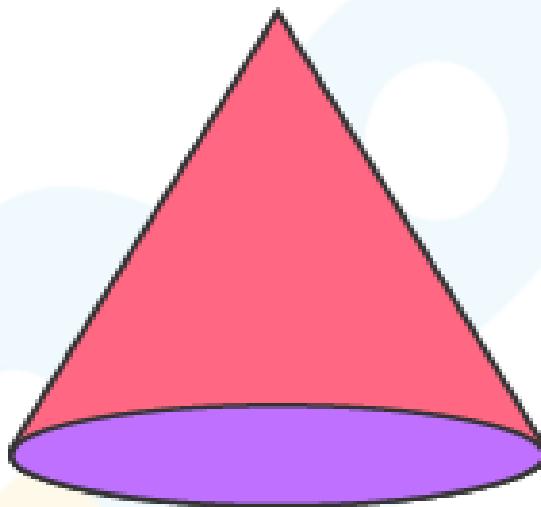
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Volume of a Cone Worksheets

- 1) What is a formula for the volume of a cone?
 - a. $\frac{1}{3} \pi r^2 h$
 - b. $\pi r l$
 - c. $\pi r(l + r)$
 - d. None of these.

- 2) Volume of a cone is 256 cubic meter, and its height is 10 m. Find the radius of a cone.



- 3) Determine the volume of a cone with a diameter of 4m and a height of 6m?
 - a. $8\pi \text{ m}^3$
 - b. $32\pi \text{ m}^3$
 - c. $24\pi \text{ m}^3$
 - d. $4\pi \text{ m}^3$

- 4) The volume of a cone with a height of 8 feet and a radius of 3 feet is _____.

- 5) Match the following formula related to the cone.

a. Curved Surface area of a cone	p- $\frac{1}{3} \pi r^2 h$
b. Volume of a cone	q- $\pi r(l + r)$
c. Total Surface Area (TSA) of Cone	r- $\pi r l$

- 6) If a radius of a cone is 4 units and its height is 7 units. What is the approximate volume of a cone?

- 7) Find the volume of the right cone with a height of 10 m and a diameter of 20 m.
- 8) If the height of two cones are 12 units and 15 units respectively, if the radius of both the cones is equal to 'r'. Find the difference between their volumes.
- 9) A cone with a height of 9 inches and a diameter of 7 inches. What is the new volume of the cone when the radius is doubled?
- 10) The volume of a waffle ice cream cone and a chocolate ice cream cone is the same. The height of the waffle cone is 10 unit and its radius is 5 units. What is the radius of the chocolate cone, if its height is 14 units?



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- Barbara Cabrera

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ANSWERS



1. A. $\frac{1}{3} \pi r^2 h$	2. 4.94 m	3. $8\pi m^3$	4. 74.4 cubics in.	5.a-r b-p c-q
6. 117.3 cubic units.	7. 1047.19 cubic m.	8. πr^2	9. 461.81 inches cubed	10. 4.43 units

FUN FACT

1. 1 million grains of sugar have a volume of just 50cm^3 .
2. Archimedes was among the first few scientists to come up with the formula for the volume of common shapes.
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.

