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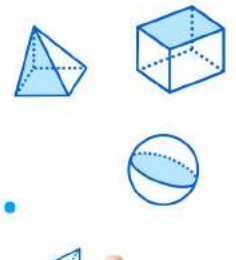

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Volume of a Cone Worksheets

1) What is a formula for the volume of a cone?

a. $1/3\ \pi r^2 h$
b. $\pi r l$
c. $\pi r(l + r)$
d. None of these.

2) Volume of a cone is 167.55its height is 10 m. Find the radius of a cone.

3) Determine the volume of a cone with a diameter of 8m and a height of 6m?

a. $8\pi\ m^3$
b. $16\pi\ m^3$
c. $24\pi\ m^3$
d. $4\pi\ m^3$

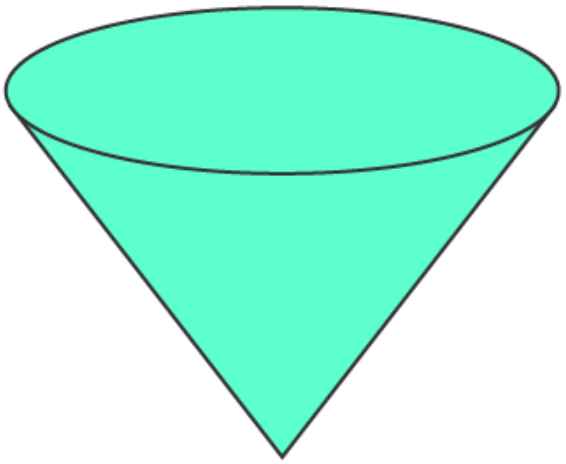
4) The volume of a cone with a height of 8 feet and a radius of 5 feet is _____.

Q.5 Match the following formula related to the cone.

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

6) If a radius of a cone is 2 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 16 m.



8) If the height of the two cones is 12units, 15units respectively and the radius is the same in each cone. How much larger is the volume of the second cone.

9) A cone with a height of 8 inches and a diameter of 3 inches. What is the new volume of a cone when the radius is doubled?

10) The volume of a waffle ice cream cone and a chocolate ice cream cone is the same. If the height of the waffle cone is 12 units and its radius is 7 units. What is the radius of the chocolate cone, if its height is 16 units?

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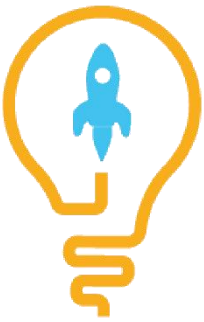
ANSWERS



1. 1/3 $\pi r^2 h$	2. 4 m	3. b. 16π m^3	4. 209.44 cubics in.	5.a-r b-p c-q
6. 29.32cubic units.	7. 670.21 cubic m.	8. r	9. 75.4 inches cubed	10. 6.61 units

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 (1/3) of a cylinder's volume.