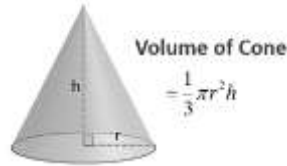


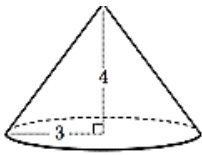
Volume Cones



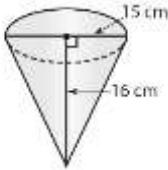
The **volume** of a cone (right circular cone) is given by the equation $V = \frac{1}{3} \pi r^2 h$. r is the radius and h is the height.

What you should notice is that the volume of a cone is just $\frac{1}{3}$ the volume of a cylinder with the same radius and height.

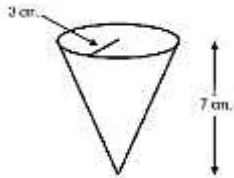
1. Find the volume of the cone in terms of π .



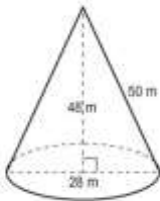
-
2. Find the volume of the cone to the *nearest 10th*.



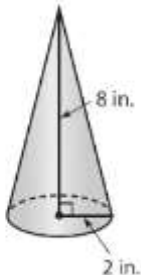
-
3. Find the volume of the cone in terms of π .



-
4. Find the volume of the cone to the *nearest 10th*.

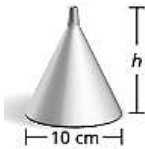


-
5. Find the volume of the cone to the *nearest 10th*.



6. Find the height of the cone.

$$\text{Volume} = 225 \text{ cm}^3$$



7.

If the volume of a cone is 1441.26 cm^3 and its radius is 9 cm, find its height.

8.

REASONING The volume of a cone is 20π cubic meters. What is the volume of a cylinder having the same base and same height?

9. Find the height of the cone.

$$\text{Volume} = \frac{1}{18} \pi \text{ ft}^3$$



10. Find the volume of a cone...

If the circumference of the base is 14 cm and the height is 11 cm, find the volume. Round to the nearest cubic cm.