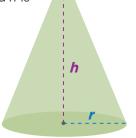
Volume of Cones

A cone is a three-dimensional figure with one circular base and one vertex. You can find the volume of a cone using this formula, where r is the **radius** and h is the **height**:

$$V = \frac{1}{3}\pi r^2 h$$



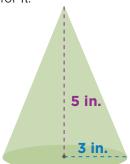
Let's try it! Find the volume of the cone below. Use 3.14 as an approximation for π .

$$V = \frac{1}{3} \pi r^2 h$$

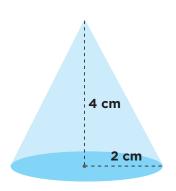
$$V \approx \frac{1}{3} \cdot 3.14 \cdot 3^2 \cdot 5$$

$$V \approx \frac{1}{3} \cdot 3.14 \cdot 9 \cdot 5$$

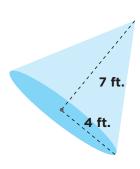
$$V \approx 47.1 \text{ in.}^3$$



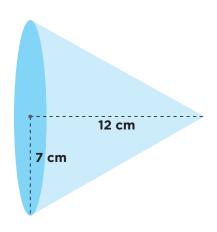
Try it yourself! Calculate the volume of each cone. Use 3.14 for π . Round your answer to the nearest hundredth if needed.



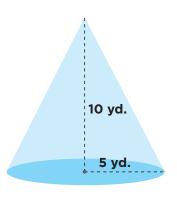
$$V_{\approx}$$
 16.75 cm³



$$V \approx 117.23 \text{ ft.}^3$$

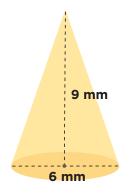


$$V \approx 615.44 \text{ cm}^3$$

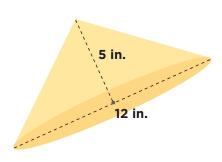


Volume of Cones

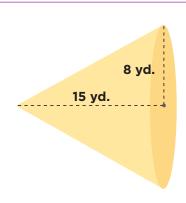
Keep going! Calculate the volume of each cone. Use 3.14 for π . Remember that the diameter of a circle is twice its radius. Round your answer to the nearest hundredth if needed.



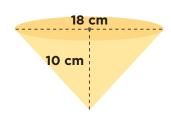
 $V \approx 84.78 \text{ mm}^3$



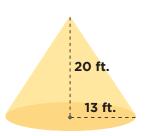
V≈ ____188.4 in.³



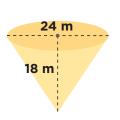
 $V \approx 1,004.8 \text{ yd.}^3$



 $V \approx 847.8 \text{ cm}^3$



 $V \approx 3,537.73 \text{ ft.}^3$



 $V \approx$ 2,712.96 m³