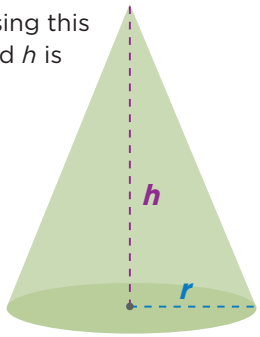
Volume of Cones

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**:

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



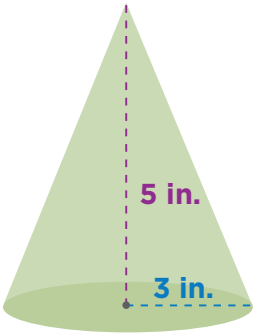
Let's try it! Find the volume of the cone below. Use 3.14 as an approximation for π.

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

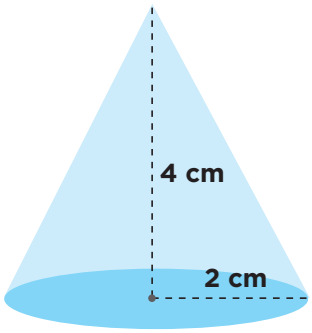
$V \approx \frac{1}{3} \cdot 3.14 \cdot 3^2 \cdot 5$

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

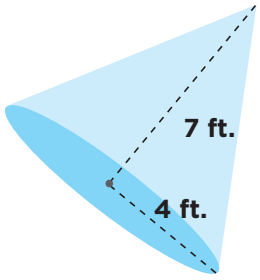
$V \approx 47.1 \text{ in.}^3$



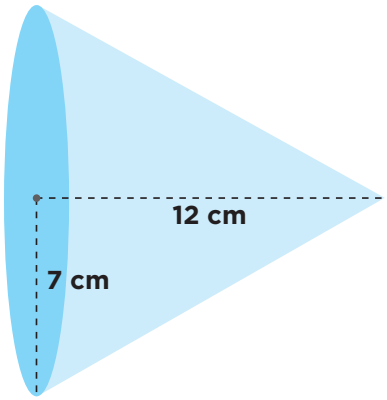
Try it yourself! Calculate the volume of each cone. Use 3.14 for π. Round your answer to the nearest hundredth if needed.



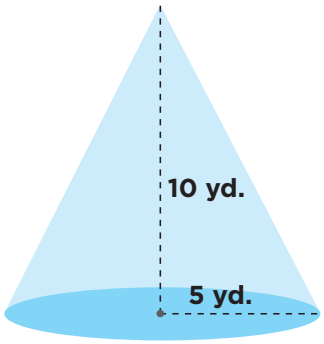
$V \approx$ _____



$V \approx$ _____



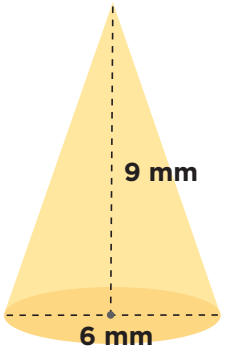
$V \approx$ _____



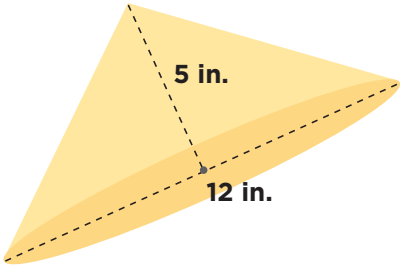
$V \approx$ _____

Volume of Cones

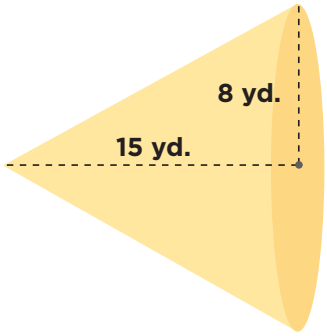
Keep going! Calculate the volume of each cone. Use 3.14 for π. Remember that the diameter of a circle is twice its radius. Round your answer to the nearest hundredth if needed.



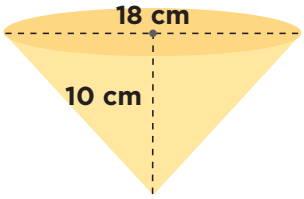
$V \approx$ _____



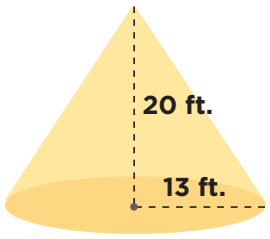
$V \approx$ _____



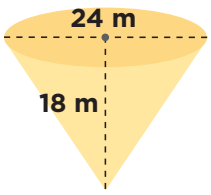
$V \approx$ _____



$V \approx$ _____



$V \approx$ _____



$V \approx$ _____