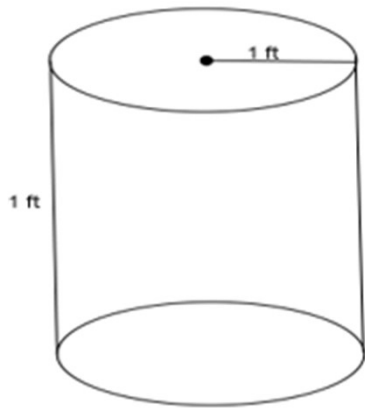
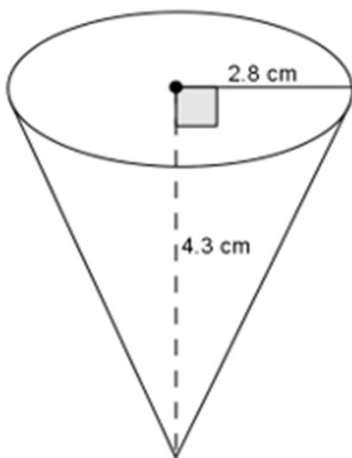


Volumes of Cones & Cylinders

1. Use the diagram to help you find the volume of the right circular cylinder.

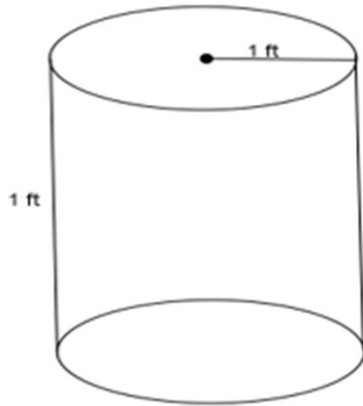


2. Use the diagram to help you find the volume of the right circular cone.



Volumes of Cones & Cylinders

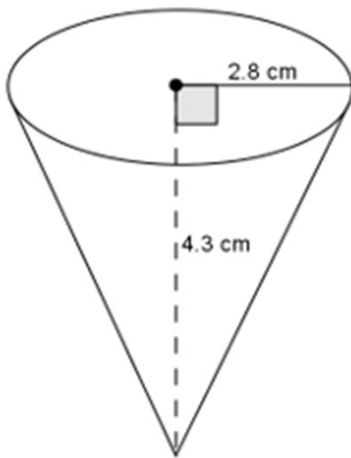
1. Use the diagram to help you find the volume of the right circular cylinder.



$$\begin{aligned}V &= \pi r^2 h \\V &= \pi(1)^2(1) \\V &= \pi\end{aligned}$$

The volume of the right circular cylinder is $\pi \text{ ft}^3$.

2. Use the diagram to help you find the volume of the right circular cone.



$$\begin{aligned}V &= \frac{1}{3}\pi r^2 h \\V &= \frac{1}{3}\pi(2.8)^2(4.3) \\V &= 11.237333 \dots \pi\end{aligned}$$

The volume of the right circular cone is about $11.2\pi \text{ cm}^3$.