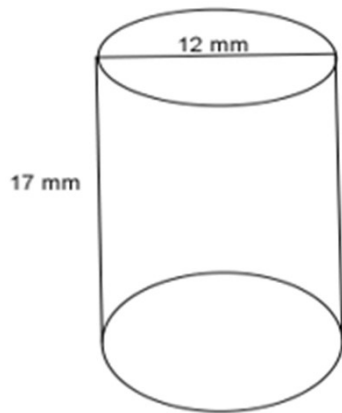
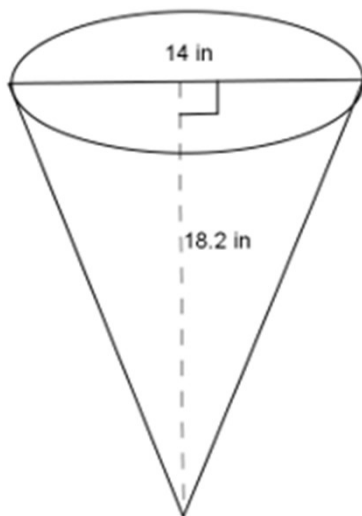


## Volumes of Cones & Cylinders

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



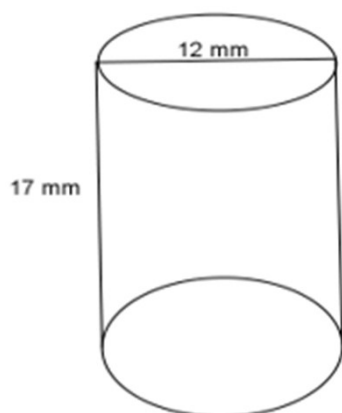
2. Use the diagram to help you find the volume of the right circular cone.



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## Volumes of Cones & Cylinders

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

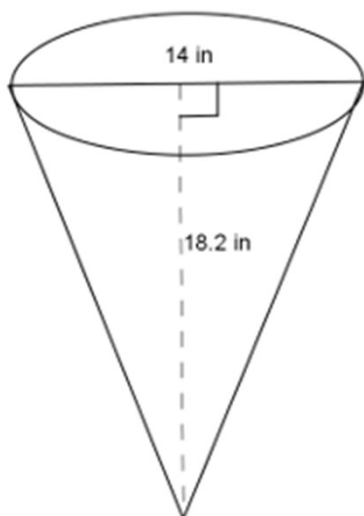


*If the diameter is 12 mm, then the radius is 6 mm.*

$$\begin{aligned}V &= \pi r^2 h \\V &= \pi(6)^2(17) \\V &= 612\pi\end{aligned}$$

*The volume of the right circular cylinder is  $612\pi \text{ mm}^3$ .*

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



*If the diameter is 14 in., then the radius is 7 in.*

$$\begin{aligned}V &= \frac{1}{3}\pi r^2 h \\V &= \frac{1}{3}\pi(7)^2(18.2) \\V &= 297.26666 \dots \pi \\V &\approx 297.3\pi\end{aligned}$$

*The volume of the right cone is about  $297.3\pi \text{ in}^3$ .*