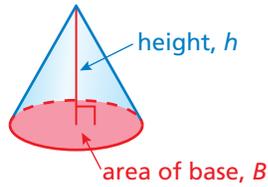


REVIEW: Volumes of Cones

Name _____

Key Concept and Vocabulary

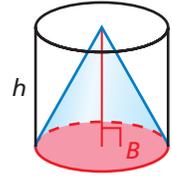


$$V = \frac{1}{3} Bh$$

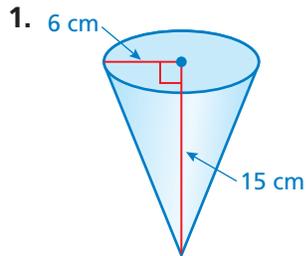


Visual Model

The volume of a cone is *one-third* the volume of the cylinder that has the same base and height.



Skill Example

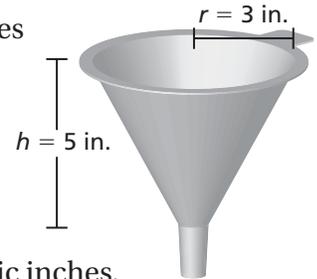


$$\begin{aligned} V &= \frac{1}{3} Bh \\ &= \frac{1}{3} \cdot (\pi \cdot 6^2) \cdot 15 \\ &= 180\pi \text{ cm}^3 \end{aligned}$$

Application Example

2. How much water does the funnel hold?

$$\begin{aligned} V &= \frac{1}{3} \cdot (\pi \cdot 3^2) \cdot 5 \\ &= 15\pi \text{ in.}^3 \end{aligned}$$



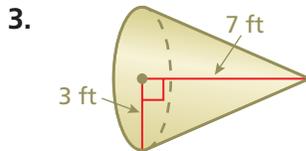
It holds 15π cubic inches.

PRACTICE MAKES PURR-FECT™

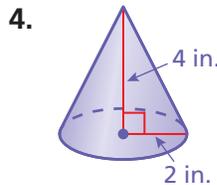


Check your answers at BigIdeasMath.com.

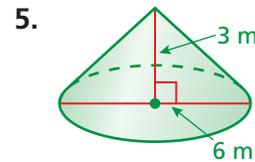
Find the volume of the cone.



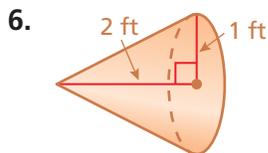
$V =$ _____



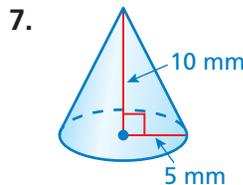
$V =$ _____



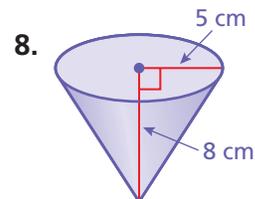
$V =$ _____



$V =$ _____



$V =$ _____



$V =$ _____

9. **LEMONADE** You have 10 gallons of lemonade (1 gal \approx 3785 cm^3) How many of the paper cups should you order? Explain. _____

