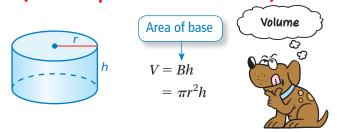
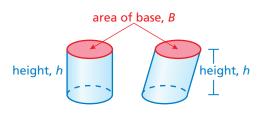
Key Concept and Vocabulary

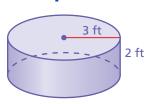


Visual Model



Skill Example

1.



$$V = \pi \cdot 3^2 \cdot 2$$
$$= 18\pi \, \text{ft}^3$$

Application Example

2. How much soup is in the can?

$$V = \pi \cdot 1.5^2 \cdot 5$$
$$= 11.25\pi$$



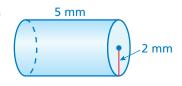
There are 11.25π cubic inches of soup.

PRACTICE MAKES PURR-FECT®

Check your answers at BigIdeasMath.com. —

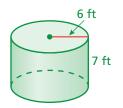
Find the volume of the cylinder.

3.



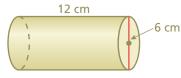
V =

4.



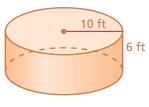
 $V = \underline{\hspace{1cm}}$

5.



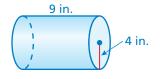
V =

6.



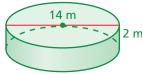
V =

7.



V =

8.



V =

- **9. OIL TANKER TRUCK** The truck's tank is a stainless steel cylinder. How much oil can the tank hold?
- **10. OIL TANKER TRUCK** There are about 7.5 gallons in 1 cubic foot. How many gallons of oil can the tank hold?



Length = 50 fRadius = 4 ft