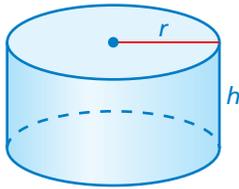


REVIEW: Surface Areas of Cylinders

Name _____

Key Concept and Vocabulary

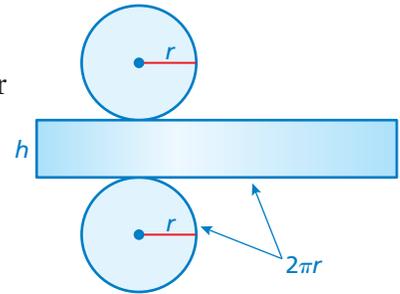


$$S = 2\pi r^2 + 2\pi rh$$

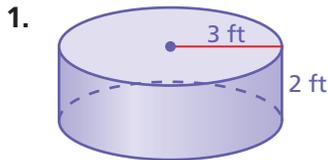


Visual Model

Net for a Circular Cylinder



Skill Example

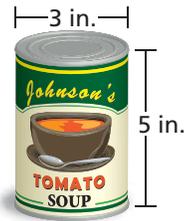


$$\begin{aligned} S &= 2\pi \cdot 3^2 + 2\pi \cdot 3 \cdot 2 \\ &= 18\pi + 12\pi \\ &= 30\pi \text{ ft}^2 \end{aligned}$$

Application Example

2. Find the surface area of the soup can.

$$\begin{aligned} S &= 2\pi \cdot 1.5^2 + 2\pi \cdot 1.5 \cdot 5 \\ &= 4.5\pi + 15\pi \\ &= 19.5\pi \text{ in.}^2 \end{aligned}$$



∴ The area is 19.5π square inches.

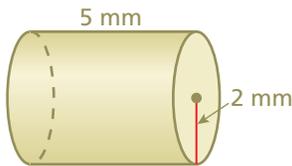
PRACTICE MAKES PURR-FECT™



Check your answers at BigIdeasMath.com.

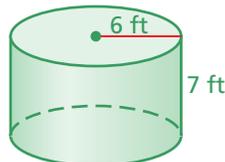
Find the surface area of the circular cylinder.

3. Circular Cylinder



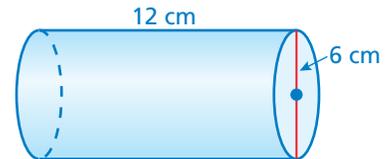
$S =$ _____

4. Circular Cylinder



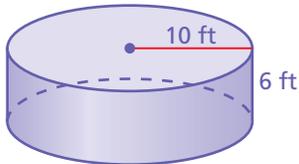
$S =$ _____

5. Circular Cylinder



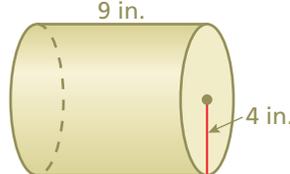
$S =$ _____

6. Circular Cylinder



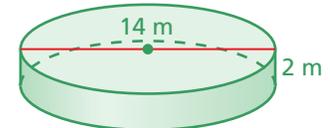
$S =$ _____

7. Circular Cylinder



$S =$ _____

8. Circular Cylinder



$S =$ _____

9. **OIL TANKER TRUCK** The truck's tank is a stainless steel cylinder. How many square feet of stainless steel are needed to make the tank? _____

10. **OIL TANKER TRUCK** What percent of the stainless steel in the tank is used to make the two ends? _____



Length = 50 ft
Radius = 4 ft