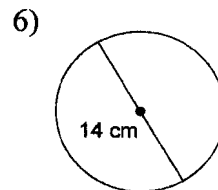
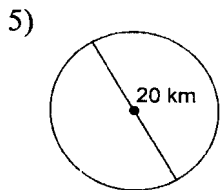
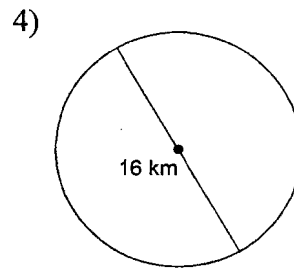
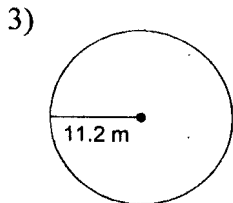
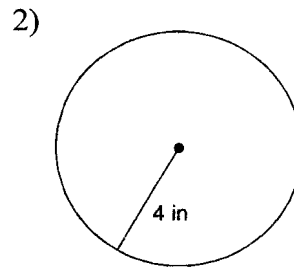
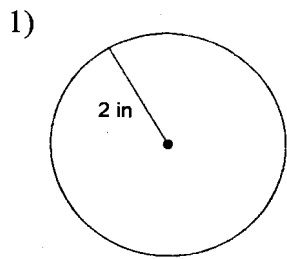
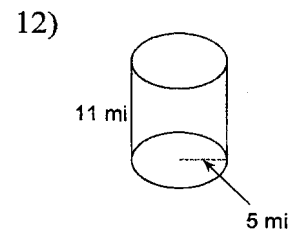
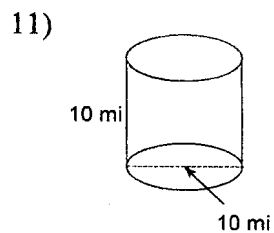
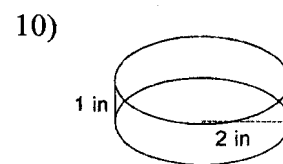
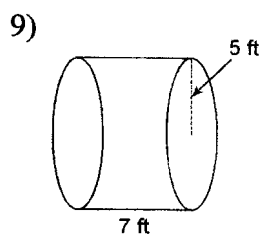
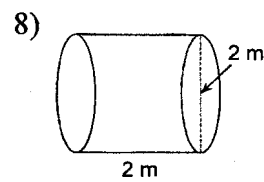
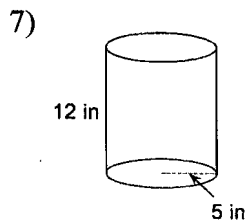


## Assignment

Find the area of each. Round your answer to the nearest tenth.



Find the volume of each figure. Round to the nearest tenth.



13) A cylinder with a radius of 1 m and a height of 6 m.

14) A cylinder with a diameter of 22 ft and a height of 11 ft.

**Practice: Word Problems****Volume of Cylinders**

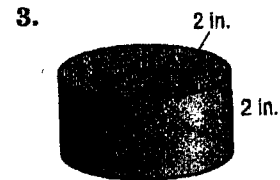
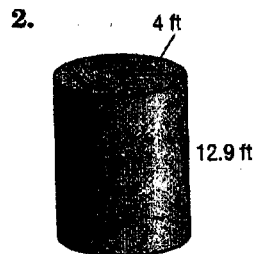
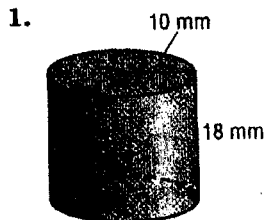
1. **WATER STORAGE** A cylindrical water tank has a diameter of 5.3 meters and a height of 9 meters. What is the maximum volume that the water tank can hold? Round to the nearest tenth.

2. **PACKAGING** A can of corn has a diameter of 6.6 centimeters and a height of 9.9 centimeters. How much corn can the can hold? Round to the nearest tenth.

3. **CONTAINERS** Tionna wants to determine the maximum capacity of a cylindrical bucket that has a radius of 6 inches and a height of 12 inches. What is the capacity of Tionna's bucket? Round to the nearest tenth.

4. **DESIGN** Rodolfo is designing a new, cylindrical drinking glass. If the glass has a diameter of 8 centimeters and a height of 12.8 centimeters, what is its volume? Round to the nearest tenth.

Find the volume of each cylinder. Round to the nearest tenth.



4. radius = 9.5 yd  
height = 2.2 yd

5. diameter = 6 cm  
height = 11 cm

6. diameter =  $3\frac{2}{5}$  m  
height =  $1\frac{1}{4}$  m