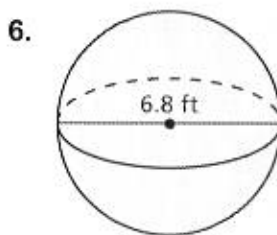
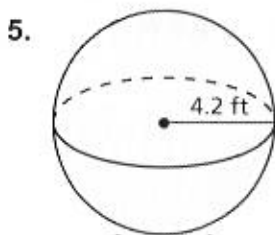
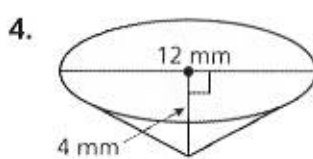
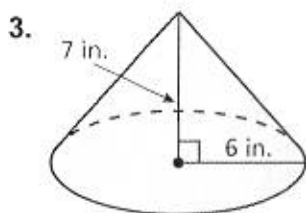
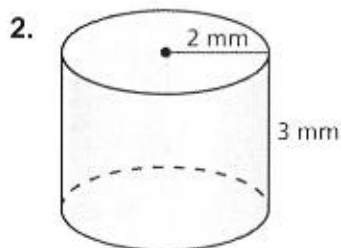
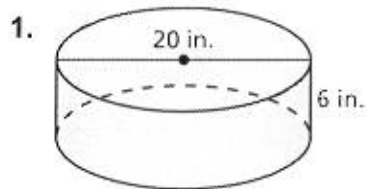


**Chapter 8**

**Concept 24 Review**

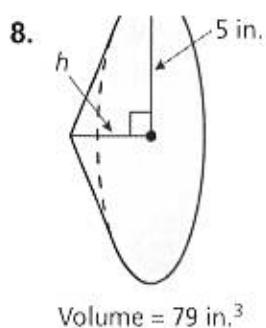
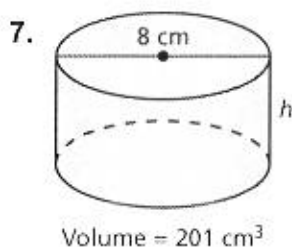
Find the volume of the solid. Round your answer to the nearest tenth.



**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

Find the missing dimension of the solid. Round your answer to the nearest tenth.



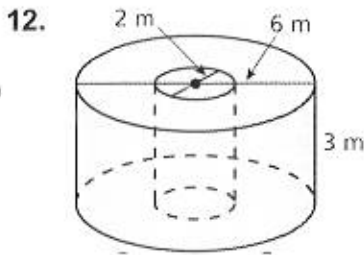
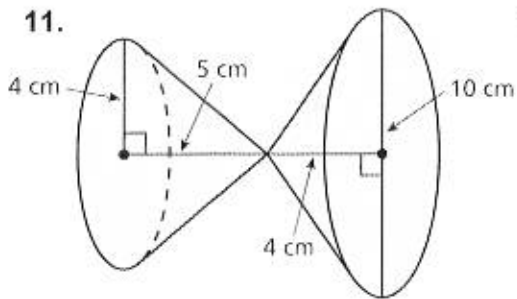
Find the radius of the sphere with the given volume.

9. Volume =  $\frac{1}{6}\pi \text{ ft}^3$

10. Volume =  $\frac{32}{3}\pi \text{ yd}^3$

**Chapter  
8**

Find the volume of the composite solid.



**Answers**

11. \_\_\_\_\_  
 12. \_\_\_\_\_  
 13. \_\_\_\_\_  
 14. \_\_\_\_\_

13. A water cooler is in the shape of a cylinder with a diameter of 2 feet and a height of 3 feet. About how many gallons of water can the cooler contain? Round your answer to the nearest whole number.  
 ( $1 \text{ ft}^3 \approx 7.5 \text{ gal}$ )

14. The volume of a cone is  $6\pi$  cubic inches. What is the volume of a cylinder having the same base and same height? Explain your reasoning.