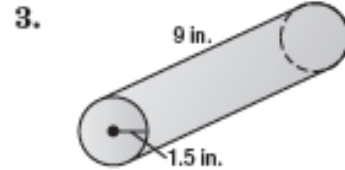
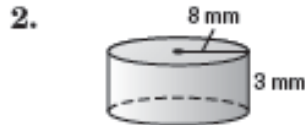
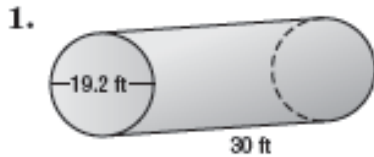


# Assignment 31

Complete on looseleaf, in pencil. You may use a calculator, especially so that you do not have to approximate  $\pi$



4. radius: 2.6 m  
height: 8.4 m

5. diameter: 21 ft  
height: 13 ft

6. diameter: 4.5 yd  
height: 55 yd

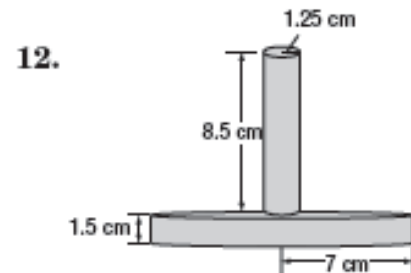
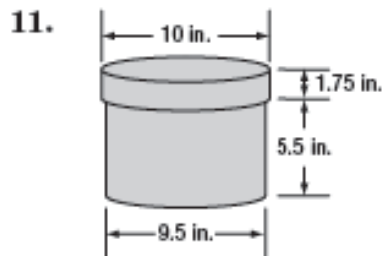
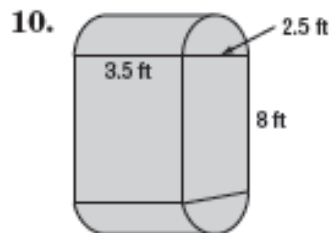
**Find the height of each cylinder. Round to the nearest tenth.**

7. radius: 15 ft  
volume: 60,052.5 ft<sup>3</sup>

8. diameter: 2.9 cm  
volume: 35.6 cm<sup>3</sup>

9. diameter: 16 in.  
volume: 5,425.9 in<sup>3</sup>

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



13. **PLUMBING** A pipe has a diameter of 2.5 inches and a length of 15 inches. To the nearest tenth, what is the volume of the pipe?

14. A cube is 8 inches on each side. What is the height of a cylinder having the same volume, if its radius is 4 inches? Round to the nearest tenth.

15. **FITNESS** Gary's Gym has a giant dumbbell on the roof of its building. Find the volume of the dumbbell. Round to the nearest tenth.

