

Find the radius or diameter of each circle with the given dimensions.

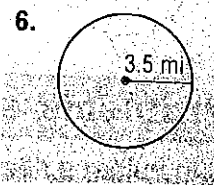
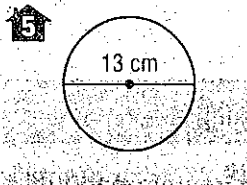
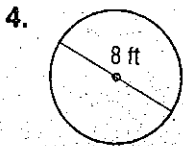
(Examples 1 and 2)


1.  $d = 5 \text{ mm}$  \_\_\_\_\_

2.  $d = 24 \text{ ft}$  \_\_\_\_\_

3.  $r = 17 \text{ cm}$  \_\_\_\_\_

Find the circumference of each circle. Use 3.14 or  $\frac{22}{7}$  for  $\pi$ . Round to the nearest tenth if necessary. (Example 3)

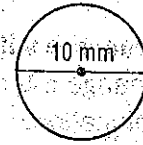


7.  The largest tree in the world by volume is in Sequoia National Park. The diameter at the base is 36 feet. If a person with outstretched arms can reach 6 feet, how many people would it take to reach around the base of the tree?

8. The Belknap shield volcano is located in the Cascade Range in Oregon. The volcano is circular and has a diameter of 5 miles. What is the circumference of this volcano. Round your answer to the nearest tenth?

9. **Be Precise** Refer to the circle at the right.

a. Find the circumference of the circle. Use 3 as the estimate of  $\pi$ .



b. Find the circumference of the circle using 3.14 for  $\pi$ .

c. Another estimate of  $\pi$  is 3.14159. Find the circumference using this estimate.

d. What do you notice about the estimate used for  $\pi$  and the circumference of the circle?

**Find the diameter given each circumference. Use 3.14 for  $\pi$ .**

10. a satellite dish with a circumference of 957.7 meters

11. a basketball hoop with a circumference of 56.52 inches

12. a nickel with a circumference of about 65.94 millimeters