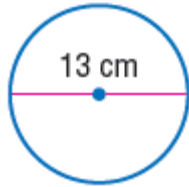


## Chapter 8 Measure Figures

### Lesson 8-1 Circumference

Page 617

- 5** Find the circumference of the circle. Use 3.14 or  $\frac{22}{7}$  for  $\pi$ .



$$C = \pi d$$

$$C \approx 3.14 \cdot 13$$

$$C \approx 40.8$$

Circumference of a circle.

Replace  $\pi$  with 3.14 and  $d$  with 13.

Multiply.

The circumference of the circle is about 40.8 centimeters.

- 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?

First calculate the approximate circumference of the tree and then divide that number by 6 feet to find the number of people needed to reach around the base of the tree.

$$C = \pi d$$

$$C \approx 3.14 \cdot 36$$

$$C \approx 113.04$$

Circumference of a circle.

Replace  $\pi$  with 3.14 and  $d$  with 36.

Multiply.

Now divide the circumference, 113.04, by 6 feet, the distance each person can reach.

$$113.04 \div 6 = 18.84$$

It would take 19 people to reach around the base of the tree.