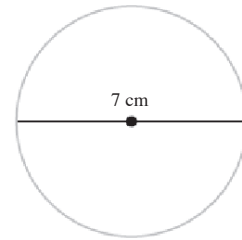
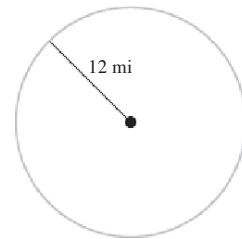


**Practice  
11-2*****Circumference of a Circle***

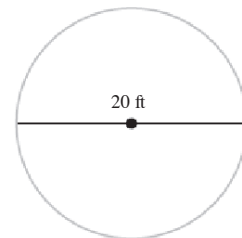
1. Find the circumference of the circle. Write an exact answer in terms of  $\pi$ .



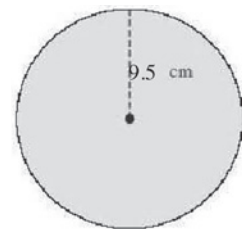
2. Find the circumference of the circle. Write an exact answer in terms of  $\pi$ .



3. Find the circumference of the circle. Use 3.14 for  $\pi$ . Write an integer or decimal rounded to the nearest hundredth as needed.



4. Find the circumference of the circle. Use 3.14 for  $\pi$ . Round to the nearest hundredth as needed.



5. Find the diameter of the circle with the circumference  $C = 27$  cm. Use 3.14 for  $\pi$ . Round to the nearest tenth as needed.
6. The distance around a meteor crater is 9,687 ft. Find the diameter of the crater. Use  $\frac{22}{7}$  for  $\pi$ . Write an integer or decimal rounded to the nearest tenth as needed.
7. a) **Writing** What is the diameter of a circle with a circumference of 29.6 ft? Use 3.14 for  $\pi$ . Round to the nearest tenth as needed.
- b) How does tripling the circumference of the circle affect the diameter of the circle? Give at least three examples to support your answer.

- 8. Reasoning** Circle I has a radius of 21 meters and Circle II has a radius of 28 meters.
- Find the circumference of the two circles. Write an exact answer in terms of  $\pi$ .
  - Is the relationship between the radius of a circle and the distance around the circle the same for all circles? Explain.
- 9. Error Analysis** The diameter of the circle is 18 m. Tim incorrectly says that the circumference of the circle is about 28.26 m.
- What is the circumference of the circle? Use 3.14 for  $\pi$ .
  - What mistake did Tim make?
    - Tim did not multiply by 3.14.
    - Tim squared the diameter.
    - Tim used 9 instead of 18 for diameter.
    - Tim used 36 instead of 18 for diameter.
- 10. Fencing** How much fencing is required to enclose a circular garden whose radius is 22 m? Use 3.14 for  $\pi$ .
- 11. Mental Math** What is the diameter of a circle with a circumference of 132 ft? Use  $\frac{22}{7}$  for  $\pi$ .
- 12. Estimation** Wheel I has diameter 25.4 in. Wheel II has diameter 22.5 in. Round the diameter of each wheel to the nearest inch. About how much farther will Wheel I travel in one rotation? Use 3.14 for  $\pi$ .
- 13.** The circumference of the inner circle is 44 ft. The distance between the inner circle and the outer circle is 2 ft. By how many feet is the circumference of the outer circle greater than the circumference for the inner circle? Use  $\frac{22}{7}$  for  $\pi$ .

