

**Practice A**

For use with pages 595–602

The diameter of a circle is given. Find the radius.

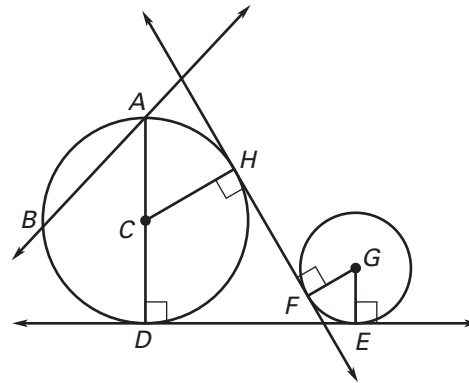
1.  $d = 6$  in.                      2.  $d = 24$  cm                      3.  $d = 15$  ft                      4.  $d = 9$  in.

The radius of a circle is given. Find the diameter.

5.  $r = 11$  cm                      6.  $r = 8$  ft                      7.  $r = 10$  in.                      8.  $r = 4.6$  cm

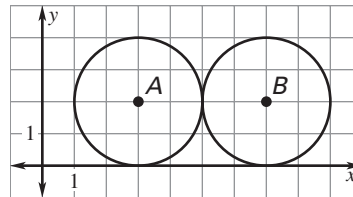
Match the notation with the term that best describes it.

- |                               |                            |
|-------------------------------|----------------------------|
| 9. $D$                        | A. Center                  |
| 10. $\overleftrightarrow{FH}$ | B. Chord                   |
| 11. $\overline{CD}$           | C. Diameter                |
| 12. $\overline{AB}$           | D. Radius                  |
| 13. $C$                       | E. Point of tangency       |
| 14. $\overline{AD}$           | F. Common external tangent |
| 15. $\overleftrightarrow{AB}$ | G. Common internal tangent |
| 16. $\overleftrightarrow{DE}$ | H. Secant                  |

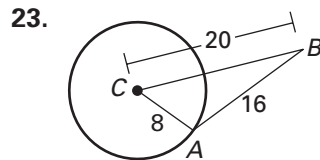
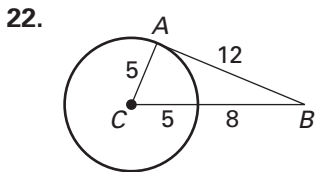


Use the diagram at the right.

- What are the center and radius of  $\odot A$ ?
- What are the center and radius of  $\odot B$ ?
- Describe the intersection of the two circles.
- Describe all the common tangents of the two circles.
- Are the two circles congruent? Explain.



Tell whether  $\overleftrightarrow{AB}$  is tangent to  $\odot C$ . Explain your reasoning.



24. **Baseball Stadium** The shape of the outfield fence in a baseball stadium is that of a quarter circle. If the distance from home plate to the wall is 330 feet, what is the radius of the entire circle? What is the diameter of the circle?

