Name Date Period

**9.1 Circle Basics**

**Refer to the figure at the right.**

1. Name the center of circle A.

2. Name a diameter.

3. Name a radius of the circle. Is there more than one radius?

4. Name a chord.

5. Name a tangent line.

6. Name a secant line.

7. Name a point in the interior of the circle.

8. Name a point in the exterior of the circle.

9. Name three points that lie on the circle.

10. If AC =3, then AB = ? and BD = ?

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**Refer the figure at the right.**

Identify the term that best describes the given line, segment, or point.

11. $\overbar{MN}$ 12. $\overbar{NJ}$

13. J 14. $\overleftrightarrow{HJ}$

15. $\overbar{KL}$ 16. $\overbar{PM}$

17. $\overleftrightarrow{KL}$ 18. M

19. Is point H in the interior or exterior of the circle?

20. If a line segment is drawn from point M to point K, what would $\overbar{MK}$ be?

21. If a line segment is drawn from point L to point P, what would $\overbar{LP}$ be?

**Fill in the blank.**

22. A diameter of a circle is always the longest \_\_\_\_\_\_\_\_\_\_\_ of the circle.

23. A radius is ½ of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

24. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a line that goes through two points on a circle.

25. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ line touches a circle in exactly one point.

**Compare the ratios of the two radii, the two diameters, and the two circumferences for the given circles.**

26. radius of 5 and radius of 7

27. radius of 10 and radius of 8

28. radius of 8 and radius of 14