**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 = ?****

**Refer the figure at the right.**

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

11. 12.

13. J 14.

15. 16.

17. 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 be?

21. If a line segment is drawn from point L to point P, what would 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.

**9.2 Central angles and inscribed angles**

**Find the measure of each angle or arc. **

26. 27.

28. 29.

30. 31.

32. 33.

34. 35.

 **Find the measure of each angle or arc.**

36. 37.

38. 39.

40. 41.

42. 43.

44. 45.

46. 47.

48. 49.

50. 51.