SM 2

Name:_____Period:_____

SM2 12.1--Circle Vocabulary, Arc and Angle Measures

Fill in the blanks.

1. A _____ is a line in the plane of a circle that intersects the circle in exactly one point, called a point of _____.

2. A _____ is a segment whose endpoints are the center of a circle and a point on the circle.

3. A _____ is a segment whose endpoints are points on the circle.

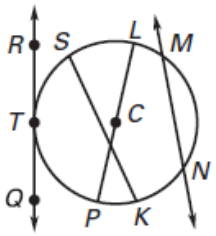
4. A _____ is a chord that passes through the center of a circle.

5. A _____ is a line that intersects a circle in two points.

6. A _____ angle is the angle that is formed when 2 radii meet at the center of a circle.

7. An _____ angle is an angle whose vertex is on a circle and whose sides contain chords of the circle.

Use the diagram below for problems 8-13.



8. *T* is a _____.

9. Name a secant. _____

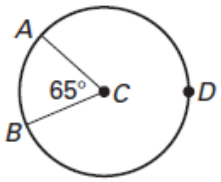
10. $\overline{SK}$ is a _____.

11. Name a tangent. _____

12. $\overline{CL}$ is a _____.

13. Name a diameter. _____

Use the diagram below for problems 14-16.

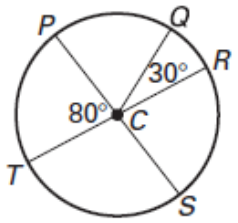


14. Name the central angle and find its measure.

15. Name the minor arc and find its measure.

16. Name the major arc and find its measure.

In the diagram below, $\overline{PS}$ and $\overline{TR}$ are diameters. Find the requested arc measures.



17. *mTS*

18. *mPQ*

19. *mTPQ*

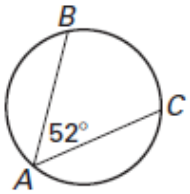
20. *mTQR*

21. *mTRQ*

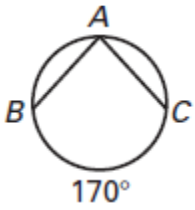
22. *mSRQ*

Find the measure of the inscribed angle or the intercepted arc.

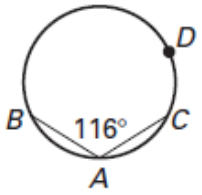
23. *mBC*



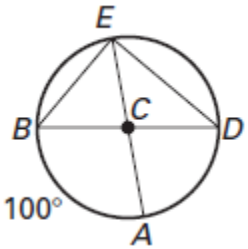
24. *m∠BAC*



25. *mBDC*



Use the diagram below to find the requested angle or arc measure. $\overline{BD}$ and $\overline{EA}$ are diameters.



26. *m∠BCA*

27. *m∠BEA*

28. *mAD*

29. *m∠ACD*

30. *m∠AED*

31. *mBAD*

32. *m∠BED*

33. *mBDA*