

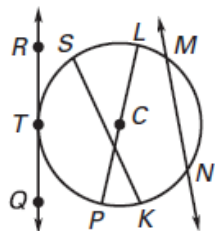
Name: _____ Period: _____

SM2 12.1--Circle Vocabulary, Arc and Angle Measures

Fill in the blanks.

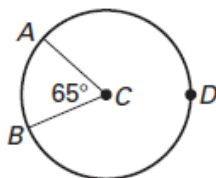
1. A _____ is a line in the plane of a circle that intersects the circle in exactly one point, called a point of _____.
2. A _____ is a segment whose endpoints are the center of a circle and a point on the circle.
3. A _____ is a segment whose endpoints are points on the circle.
4. A _____ is a chord 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.



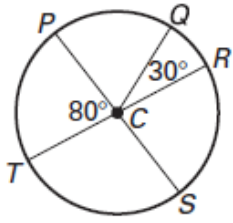
8. T is a _____.
9. Name a secant. _____
10. \overline{SK} is a _____.
11. Name a tangent. _____
12. \overline{CL} is a _____.
13. Name a diameter. _____

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. $m\overline{TS}$

18. $m\overline{PQ}$

19. $m\overline{TPQ}$

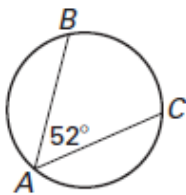
20. $m\overline{TQR}$

21. $m\overline{TRQ}$

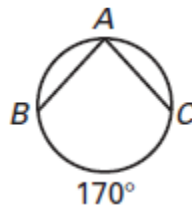
22. $m\overline{SRQ}$

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

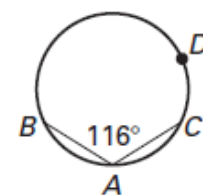
23. $m\overline{BC}$



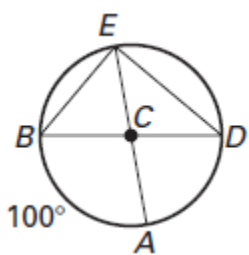
24. $m\angle BAC$



25. $m\overline{BDC}$



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



26. $m\angle BCA$

27. $m\angle BEA$

28. $m\overline{AD}$

29. $m\angle ACD$

30. $m\angle AED$

31. $m\overline{BAD}$

32. $m\angle BED$

33. $m\overline{BDA}$