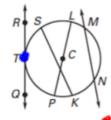
SM2 12.1 Circle Vocabulary, Arc and Angle Measures	
Fill in the blanks.	
1. A	is a line in the plane of a circle that intersects the circle in exactly one
point, called a point of	·
2. A the circle.	is a segment whose endpoints are the center of a circle and a point on
3. A	is a segment whose endpoints 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. Acircle.	angle is the angle that is formed when 2 radii meet at the center of a
7. An chords of the circle.	angle is an angle whose vertex is on a circle and whose sides contain
These answers can be found in your finished notes	

Use the diagram below for problems 8-13.



8. T is a **point of** \(\frac{1}{2}\).

- 10. SK <u>is</u> a <u>C</u>______.
- 12. \overline{CL} is a Γ
- 9. Name a secant.
- 11. Name a tangent.
- 13. Name a diameter.

8. finish the word that starts with to

10. SK is a <u>c</u> (5 letters)

12 CL is the segment
that goes to the center
from a point on the circle
The answer starts with
the letter r.

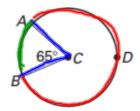
9. a secant is a line that has 2 points on the circle.

11. A tangent line touches
the circle in one point.
13. A diameter of a circle is
the segment that

goes through the center of the circle and has end points on the circle

Use the diagram below for problems 14-16.





14. Name the central angle and find its measure.

High lighted in blue.

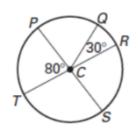
use 3 letters (ventox is middle letter.)

15. Name the minor arc and find its measure.
Highlighted in green (use 2 letters)
Measure is same as angle measure.

16. Name the major arc and find its measure.

Highlighted in red. (use 3 letters)
Measure is 360-minor are measure.

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



17. $m\widehat{TS}$ Same as LTCS

18. mPQ Same as LPCO

19. mTPO

add mTP+mPQ

Add mTP+mPQ+mPQ+mQR

21. mTRO add m TR + mRO add m SR + mRO

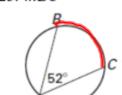
Find all angle measures first.

m < PCQ is 180°-80°-30° m < RCS is a vertical angle with < PCT so they have the same measure (80°)

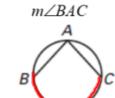
m/TCS is 180°-80°

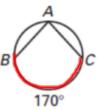
Find the measure of the inscribed angle or the intercepted arc.

23.
$$\widehat{mBC}$$

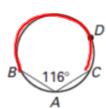


24.

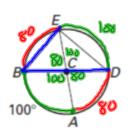








Use the diagram below to find the requested angle or arc measure. \overline{BD} and \overline{EA} are diameters.



26. *m∠BCA*

measure is same as BA

27. *m∠BEA* < BEA is unscribed M < BEA = 1 BA

28. \widehat{mAD} Same as LACD 29. *m∠ACD*

30. *m∠AED*

add m BA + m AD

32. $m \angle BED$ 33. $m \widehat{BDA}$ Add $m \widehat{BED} + m \widehat{DA}$