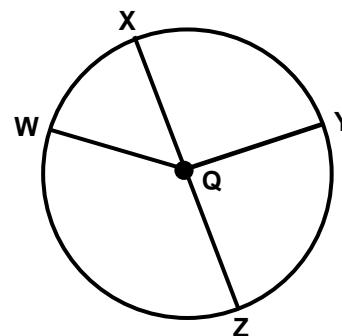


NAME _____ DATE _____ PER. _____

A#16-2 ARCS, SEMICIRCLES, & CENTRAL ANGLES

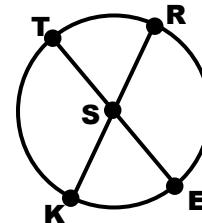
Using the diagram below, name each of the following.

1. _____ _____	Two central angles
2. _____	Two semicircles
3. _____ _____	Four minor arcs
4. _____ _____	Two major arcs



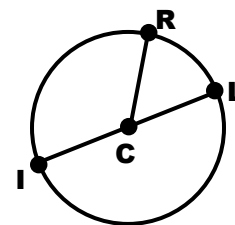
In circle S, \overline{TE} and \overline{KR} are diameters with $m\angle TSR = 42^\circ$. Determine whether each arc is a minor arc, a major arc, or a semicircle. Find the degree measure of each arc.

5. _____; _____	$m\widehat{TRE} = ?$
6. _____; _____	$m\widehat{TK} = ?$
7. _____; _____	$m\widehat{TRK} = ?$



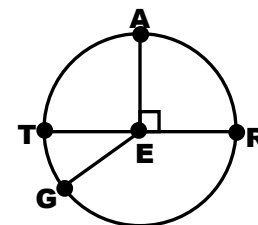
In circle C, \overline{IL} is a diameter, $m\angle ICR = (3x + 5)^\circ$, and $m\angle RCL = (x - 1)^\circ$.

8. _____	Find the value of 'x'.
9. _____	Find $m\angle ICR$.
10. _____	Find $m\widehat{ILR}$.



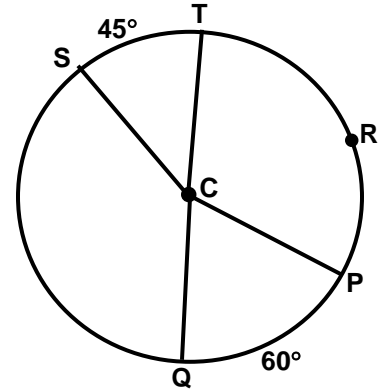
Refer to circle E for exercises 11 – 13. If $m\angle TEG = 21^\circ$ and \overline{TR} is a diameter, determine whether each arc is a minor arc, a major arc, or a semicircle. Then find the degree measure of each arc.

11. _____; _____	$m\widehat{TG}$
12. _____; _____	$m\widehat{ATR}$
13. _____; _____	$m\widehat{AR}$



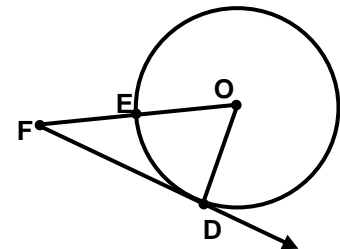
Using circle C, find the measure of each arc or angle named. If an arc is named, classify it as well. In circle C, \overline{TQ} is a diameter.

14. _____	$m\angle PCQ = ?$
15. _____; _____	$m\widehat{ST} = ?$
16. _____; _____	$m\widehat{SQP} = ?$
17. _____; _____	$m\widehat{SQ} = ?$
18. _____	$m\angle SCQ = ?$
19. _____	$m\angle SCP = ?$
20. _____; _____	$m\widehat{PQT} = ?$
21. _____	$m\angle TCP = ?$
22. _____; _____	$m\widehat{SPT}$



In circle O, $m\angle OFD = 43^\circ$ and \overrightarrow{FD} is a tangent, find each of the following.

23. _____	$m\angle FDO = ?$
24. _____	$m\angle FOD = ?$
25. _____	$m\widehat{DE}$



Find each of the angles measures indicated.

26. $m\angle 1 =$ _____	
27. $m\angle 1 =$ _____ $m\angle 2 =$ _____	