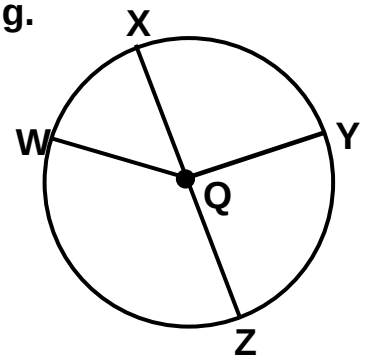
NAME_____**DATE**_____**PER.**____

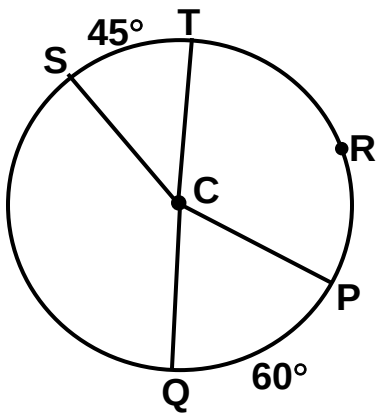
ARCS, SEMICIRCLES, & CENTRAL ANGLES

Using the diagram below, name each of the following.



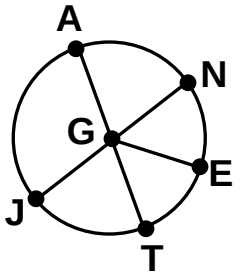
1. _____ _____	Four central angles		
2. _____	Two semicircles		
3. _____ _____	Four minor arcs	4. _____ _____	Two major arcs

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.



5. _____	m∠PCQ = ?		
6. _____; _____	m $\overset{\frown}{ST}$ = ?		
7. _____; _____	m $\overset{\frown}{SQP}$ = ?		
8. _____; _____	m $\overset{\frown}{SQ}$ = ?		
9. _____	m∠SCQ = ?		
10. _____	m∠SCP = ?		
11. _____; _____	m $\overset{\frown}{SPQ}$ = ?		
12. _____; _____	m $\overset{\frown}{PQT}$ = ?	14. _____; _____	m $\overset{\frown}{SPT}$
13_____	m∠TCP = ?	15. _____; _____	m $\overset{\frown}{TQS}$

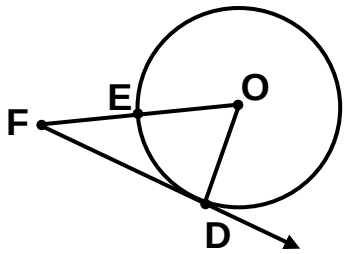
In circle G, ∠NGE ≅ ∠EGT, m∠AGJ = (4x)°, m∠JGT = (2x + 24)°, and $\overline{AT}$ and $\overline{JN}$ are diameters. Find each of the following.



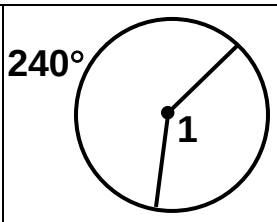
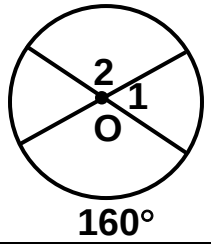
16. _____	Find the value of 'x'.		
17. _____	m∠AGJ = ?		
18. _____	m∠JGT = ?	20. _____	m $\overset{\frown}{NJT}$
19. _____	m $\overset{\frown}{NE}$	21. _____	m $\overset{\frown}{JNE}$

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

22. _____	m∠FDO = ?
23. _____	m∠FOD = ?
24. _____	m $\overset{\frown}{DE}$



Find each of the angles measures indicated.

25. m∠1 = _____	
26. m∠1 = _____ m∠2 = _____	
27. m∠1 = _____ m∠2 = _____