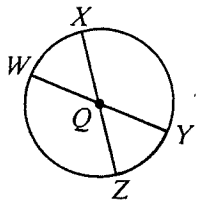
NAME _____ DATE _____

9–3 Arcs and Central Angles

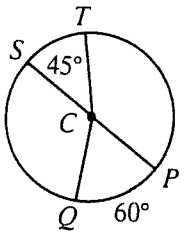
Using the letters shown in the diagram, name:

1. four central angles
2. two semicircles
3. four minor arcs
4. four major arcs

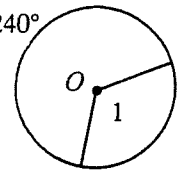


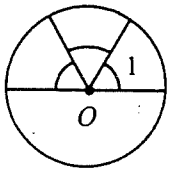
In $\odot C$, find the measure of each arc or angle named.

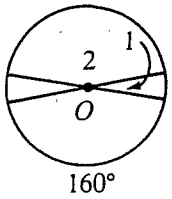
5. $\angle PCQ$
6. $\overset{\frown}{ST}$
7. $\overset{\frown}{SQP}$
8. $\overset{\frown}{SQ}$
9. $\angle SCQ$
10. $\angle SCP$
11. $\overset{\frown}{SPQ}$
12. $\overset{\frown}{PT}$
13. $\angle TCP$
14. $\overset{\frown}{SPT}$
15. $\overset{\frown}{TSQ}$

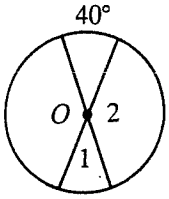


Find the measure of each numbered angle. O is the center of the circle.

16.


17.


18.


19.


The figure shows two concentric circles with center N. Classify each statement as true or false.

20. $m\overset{\frown}{BC} = 45$
21. $\overset{\frown}{AB} \cong \overset{\frown}{VW}$
22. $m\angle DNC = 90$
23. $m\overset{\frown}{XY} = 45$
24. $\overset{\frown}{VW} \cong \overset{\frown}{WX}$
25. $\overset{\frown}{AED} \cong \overset{\frown}{VZY}$