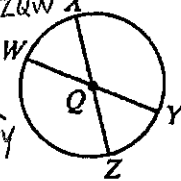


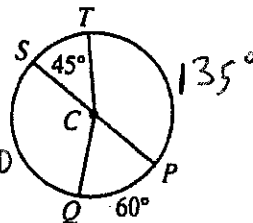
9-3 Arcs and Central Angles

Using the letters shown in the diagram, name:

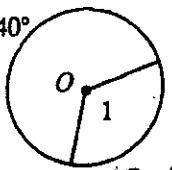
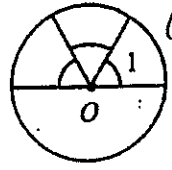
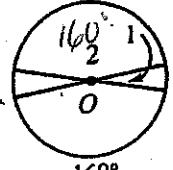
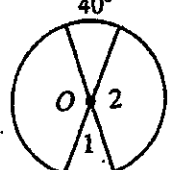
- four central angles $\angle WQX, \angle XQY, \angle YQZ, \angle ZQW$
 - two semicircles $\widehat{WXY}, \widehat{WZY}$
 - four minor arcs $\widehat{WX}, \widehat{XY}, \widehat{YZ}, \widehat{ZW}$
 - four major arcs $\widehat{WZX}, \widehat{ZYW}, \widehat{YXW}, \widehat{XWY}$
- 

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

- $\angle PCQ$ 60°
- \widehat{ST} 45°
- \widehat{SQP} 180°
- $\angle SCQ$ 120°
- $\angle SCP$ 180°
- \widehat{SPQ} 240°
- \widehat{PT} 135°
- $\angle TCP$ 135°
- \widehat{SPT} 315°
- \widehat{TSQ} 165°



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

- 240°  120°
-  60°
-  160° 20°
-  40° 140° 40°

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

- $m\widehat{BC} = 45$ True
- $m\angle DNC = 90$ True
- $\widehat{VW} \cong \widehat{WX}$ True
- $\widehat{AB} \cong \widehat{VW}$ True
- $m\widehat{XY} = 45$ False
- $\widehat{AED} \cong \widehat{VZY}$ True

