

Name: _____ Date: _____

Central Angles Homework

1. Identify and name each of the following from $\odot O$. Be sure to use the correct notation.

$\angle DOC$
 $\angle AOB$ a. Two different central angles

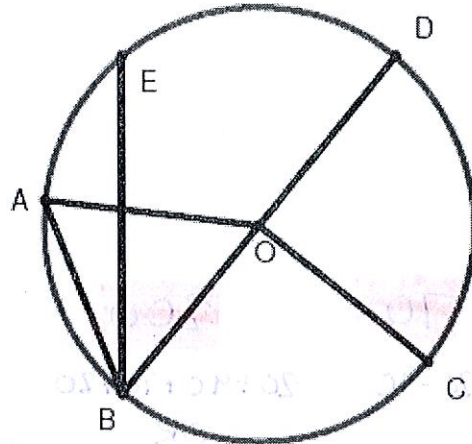
\widehat{DC} b. A minor arc

\widehat{ADC} c. A major arc

\widehat{BAD} d. A semicircle

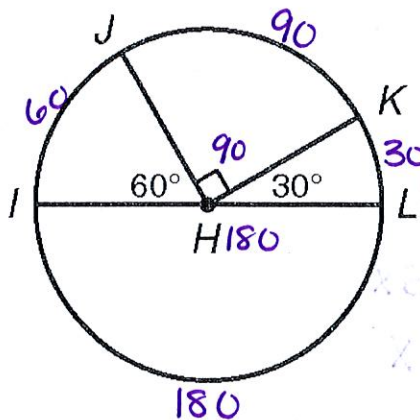
\overline{AB}
 \overline{EB} e. Two different chords

$\angle AOD$ f. The central angle subtended by \widehat{AD}

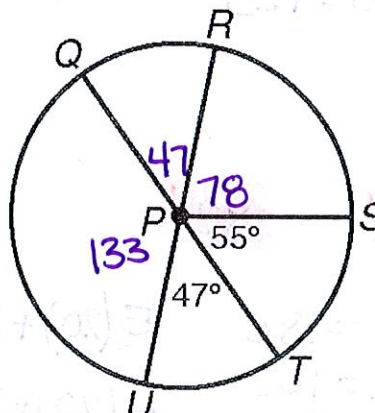


Find each measure.

2. $m\widehat{LK}$ 30, $m\widehat{IK}$ 150
 $60 + 90$

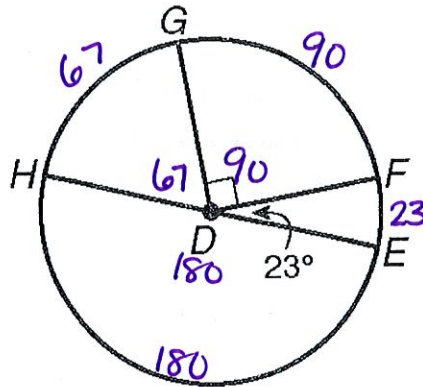


3. $m\widehat{QS}$ 125, $m\widehat{RQT}$ 227
 $47 + 78$ $47 + 133 + 47$



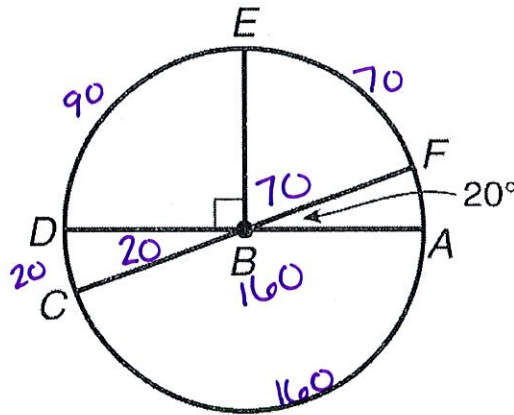
4. $m\widehat{HG}$ 67, $m\widehat{FEH}$ 203

$180 - 23 - 90$ $23 + 180$



5. $m\widehat{EF}$ 70, $m\widehat{CEA}$ 200

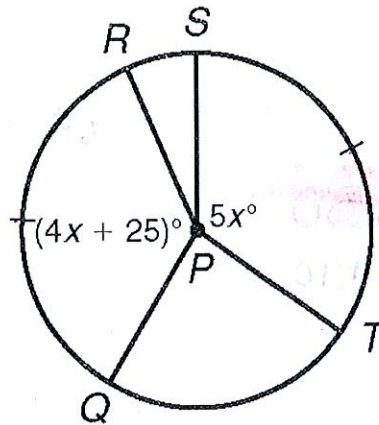
$180 - 20 - 90$ $20 + 90 + 70 + 20$
OR
 $360 - 160$



6. $\angle QPR$ 125

$4x + 25 = 5x$
 $25 = x$

$4(25) + 25 = 125$



7. $\angle UTW$ 102, $m\widehat{UV}$ 82

$5x + 80 = 180$ $5(20) + 2$
 $5x = 100$ $4(20) + 2$
 $x = 20$

