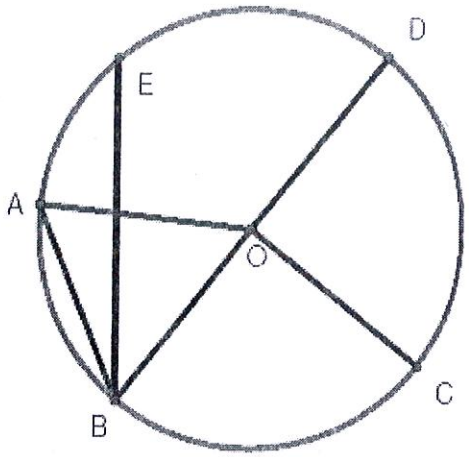
Central Angles Classwork

1. Identify and name each of the following from ⊙O. Be sure to use the correct notation. BD is a diameter.



∠BOC, ∠DOC a. Two different central angles

$\overset{\frown}{AB}$ b. A minor arc

$\overset{\frown}{DCA}$ c. A major arc

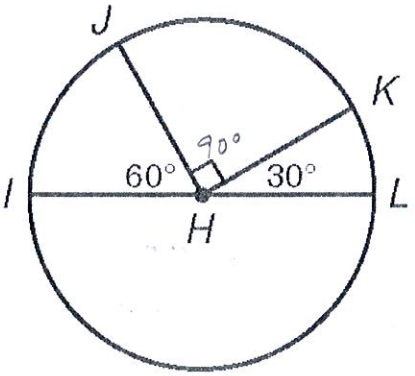
$\overset{\frown}{BCD}$ d. A semicircle

$\overline{BE}$, $\overline{BA}$ e. Two different chords

∠AOD f. The central angle subtended by $\overset{\frown}{AD}$

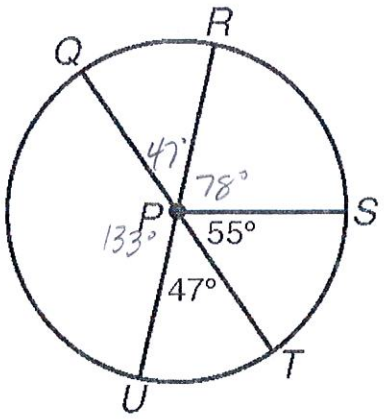
Find each measure.

IL is a diameter.



2. $m\overset{\frown}{LK}$ 30°, $m\overset{\frown}{IK}$ 150°

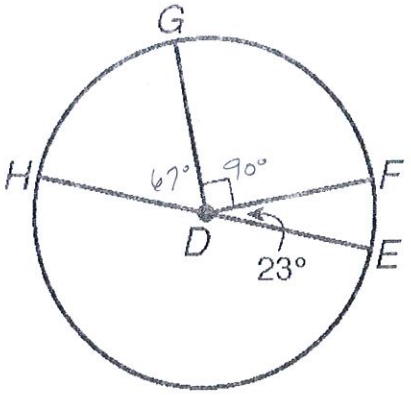
RU & QT are diameters.



3. $m\overset{\frown}{QS}$ 125°, $m\overset{\frown}{RQT}$ 227°

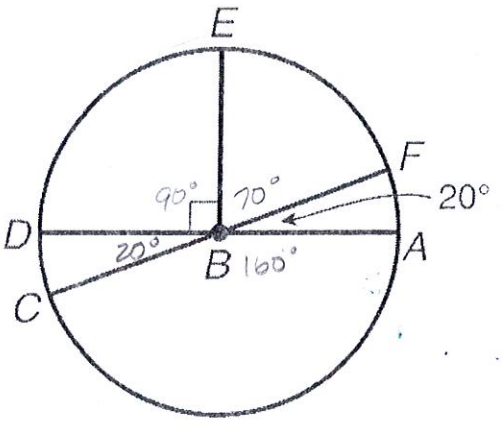
HE is a diameter

4. $m\overset{\frown}{HG}$ 67° , $m\overset{\frown}{FEH}$ 203°

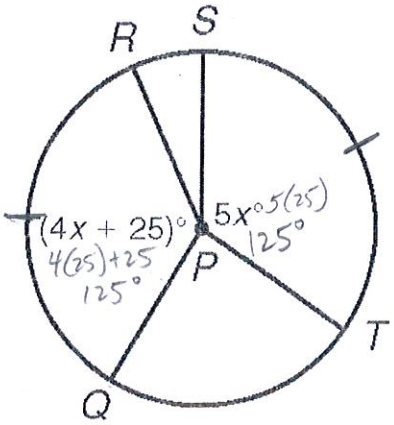


DA and FC are diameters.

5. $m\overset{\frown}{EF}$ 70° , $m\overset{\frown}{CEA}$ 200°



6. $\angle QPR$ 125°

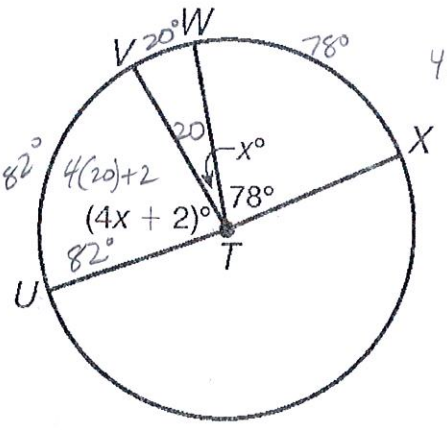


$5x = 4x + 25$

$x = 25$

UX is a diameter.

7. $\angle UTW$ 102° , $m\overset{\frown}{UV}$ 82°



$4x + 2 + x + 78 = 180$

$5x + 80 = 180$

$5x = 100$

$x = 20$