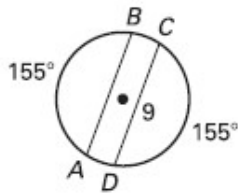


Name: \_\_\_\_\_ Date: \_\_\_\_\_

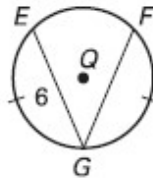
**Segments – Chord Properties**

**If two arcs are congruent, then their corresponding segments are congruent.**

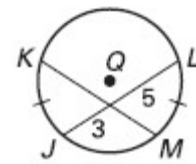
1.  $AB =$  \_\_\_\_\_



2.  $FG =$  \_\_\_\_\_

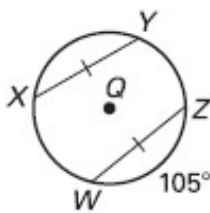


3.  $KM =$  \_\_\_\_\_

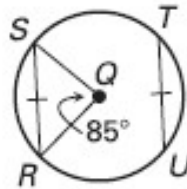


**If two segments are congruent, then their corresponding arcs are congruent.**

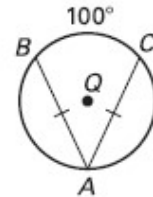
4.  $m\widehat{XY} =$  \_\_\_\_\_



5.  $m\widehat{TU} =$  \_\_\_\_\_



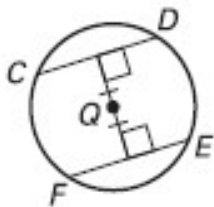
6.  $m\widehat{AB} =$  \_\_\_\_\_



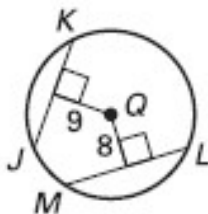
**If two chords are congruent, then they are equidistant from the center.**

Decide if the lengths are equal.

7.  $CD$  &  $EF$



8.  $JK$  &  $LM$



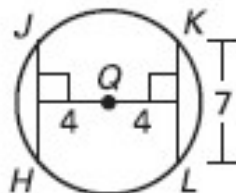
9.  $TQ$  &  $UQ$



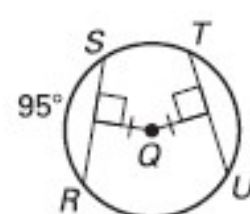
10.  $AQ =$  \_\_\_\_\_



11.  $HJ =$  \_\_\_\_\_

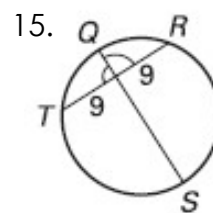
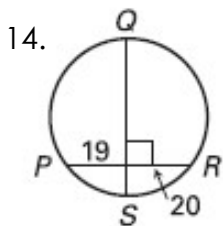
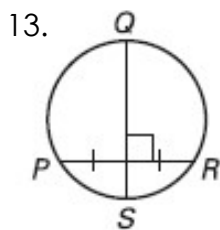


12.  $m\widehat{TU} =$  \_\_\_\_\_

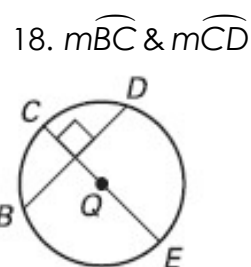
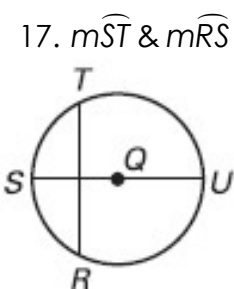
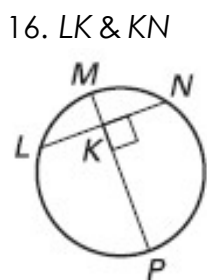


**If a diameter is perpendicular to a chord, then it also bisects the chord. This results in congruent arcs too.**

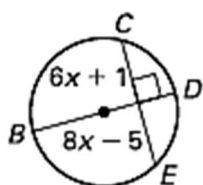
Decide if  $\overline{QS}$  is a diameter of the circle. If not, explain why.



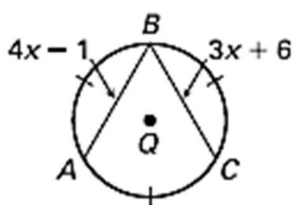
Decide if the measures are equal.



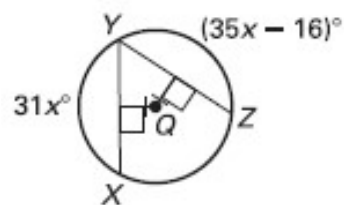
19.  $x =$  \_\_\_\_\_



20.  $x =$  \_\_\_\_\_



21.  $x =$  \_\_\_\_\_

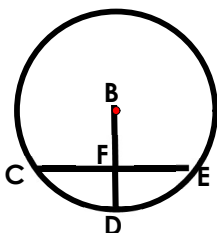


22.  $\overline{BD} \perp \overline{CE}$

$BF = 20$

$FD = 5$

$CE =$  \_\_\_\_\_



23.  $\overline{KM} \perp \overline{LN}$

$KA = 14$

$AM = 36$

$LN =$  \_\_\_\_\_

