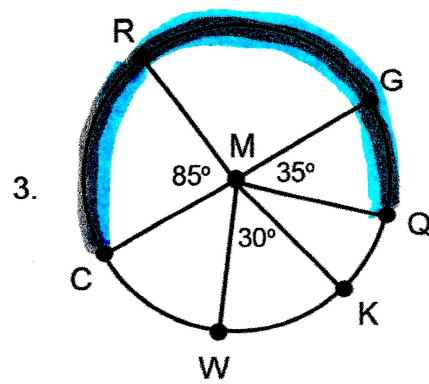
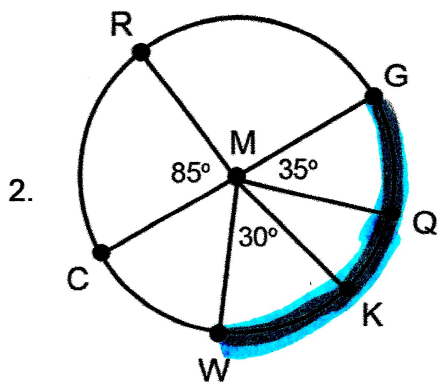
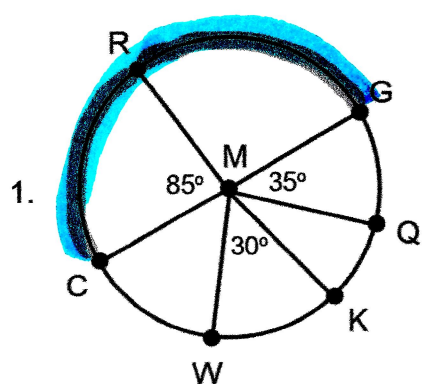


Name each highlighted arc. These are all the same circle. M is the center of the circle. \overline{GC} is a diameter.



2. Use the circles in problem #1 to fill in the blanks.

a) $\widehat{CW} + \widehat{WQ} = \underline{\hspace{2cm}}$

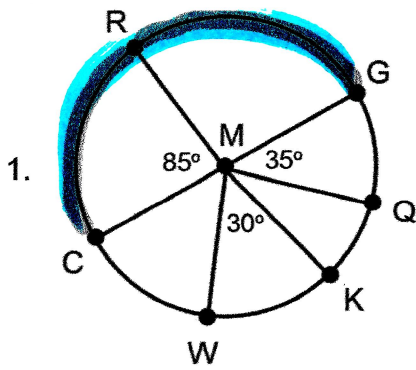
b) $\widehat{RG} + \underline{\hspace{2cm}} = \widehat{RQW}$

3. Use the circles in problem #1 to find the measure of each arc. Given: $m\widehat{CW} = m\widehat{GQ}$

a) $m\widehat{GR} =$

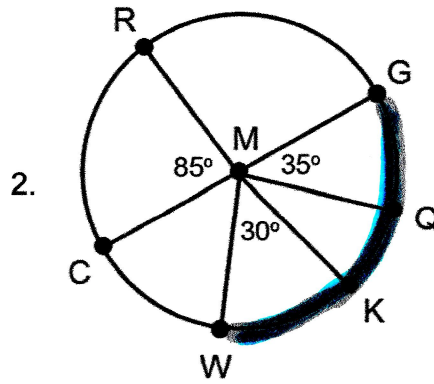
b) $m\widehat{CGK} =$

Name each highlighted arc. These are all the same circle. M is the center of the circle. \overline{GC} is a diameter.



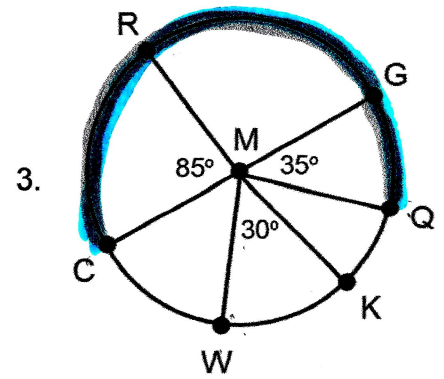
THIS is a semicircle so
need 3 letters

2 ways: \widehat{CRG} , \widehat{GRC}



THIS is a MINOR
ARC so need 2 letters

2 ways: \widehat{WK} or \widehat{KW}



THIS is a MAJOR ARC
so need 3 letters

4 ways:

\widehat{CRQ} , \widehat{GQK} ,
 \widehat{QRC} , \widehat{QKC}

2. Use the circles in problem #1 to fill in the blanks.

a) $\widehat{CW} + \widehat{WQ} = \widehat{CQ}$
minor arc so
only 2 letters

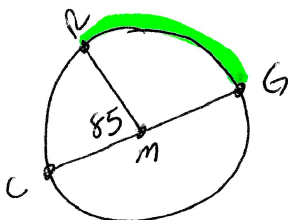
b) $\widehat{RG} + \widehat{GW} = \widehat{RQW}$
minor arc so
only 2 letters

3. Use the circles in problem #1 to find the measure of each arc. Given: $m\widehat{CW} = m\widehat{GQ}$

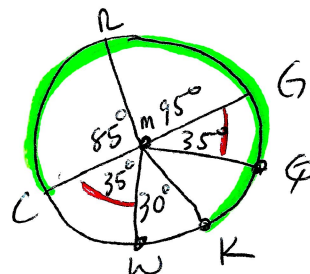
a) $m\widehat{GR} =$

$180^\circ - 85^\circ$
 $= 95^\circ$

b) $m\widehat{CGK} =$



\widehat{CG} is a diameter
so $m\widehat{CRG} = 180^\circ$
 $\widehat{RG} = \widehat{CRG} - \widehat{CR}$



$m\widehat{CGK} = 360^\circ - \widehat{CW} - \widehat{WK}$
 $360^\circ - 35^\circ - 30^\circ$

$= 295^\circ$