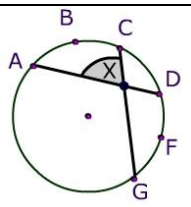
Angles and Arcs formed by Intersecting Chords

www.mathwarehouse.com/geometry/circle/angles-of-intersecting-chords-theorem.php

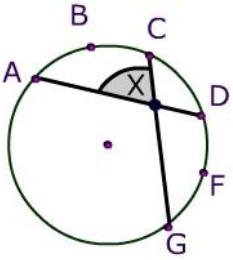
Circle Formulas and Links: **http://www.mathwarehouse.com/geometry/circle/**

Warm Up → Explain why $x \neq \frac{1}{2}ABC$



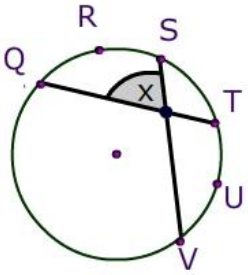
The formula
Angle of Intersecting Chords

X =

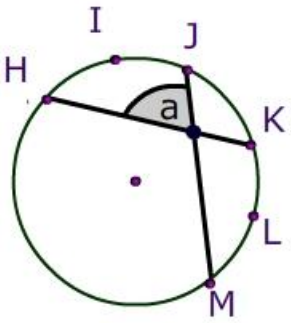


Problems

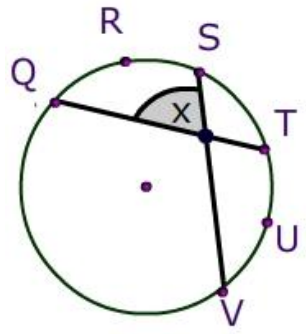
1) What is X?



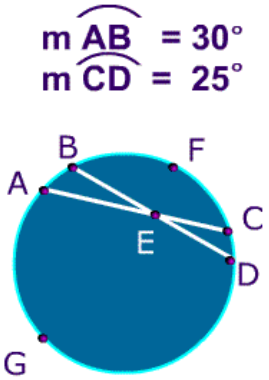
2) $m\angle a = 80^o$, and arc HIJ = 70^o



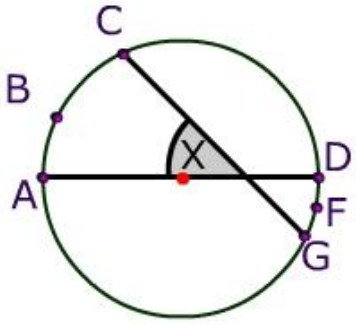
3) The ratio of arc QRS to arc TUV is 2:3 and $m\angle x = 90^{\circ}$, what is the measure of arc QRS and arc TUV?



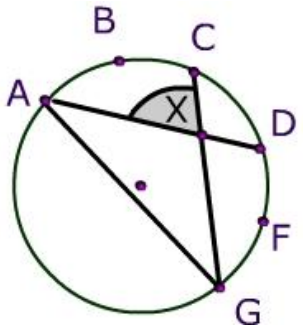
4) What is $m\angle AEB$ and $m\angle CED$?



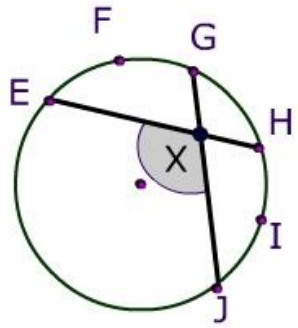
5) AD is a diameter arc ABC: arc CD: arc DFG : AG is 2 : 3: 1 : 4 .
What is X?



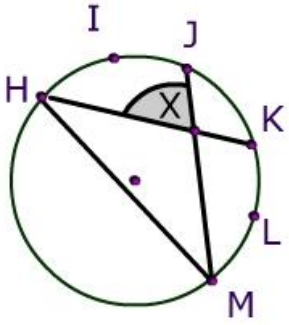
6) $\angle AGC = 30°, DFG = 70^{o}$
what is $m\angle x?^{o}$

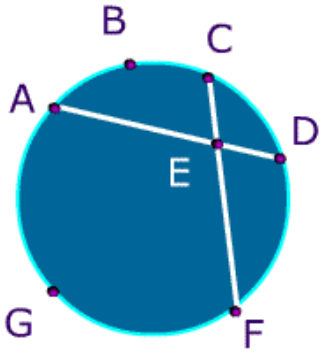


7) Measure of arc EFG = 100^{o} and arc HIJ = 110^{o}, what is $m\angle x$?



8) $m\angle KHM = 50$, $m\angle JMH = 45$, what is $m\angle x$?





Think Pair Share

What is wrong with the problem on the right? Explain.

$m\angle AEC = 70$

$AGF = 170°$

$CD = 40°$

Explanation: _____

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