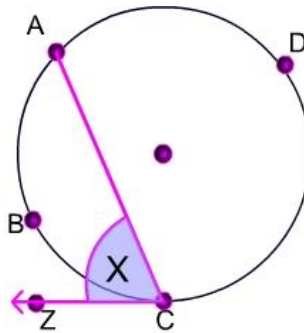


Arcs and Angles Formed by A Tangent and A Chord

URL on the angles and arcs formed by a tangent and a chord
www.mathwarehouse.com/geometry/circle/angle-tangent-and-chord.php



$$x = \frac{1}{2} m \widehat{ABC}$$

<http://www.mathwarehouse.com/geometry/circle/>

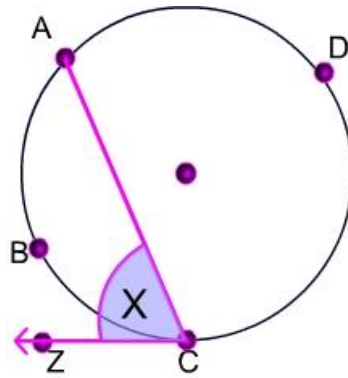
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TEACHERS: Feel free to make copies of this worksheet for the sole purpose of use in your own classroom. ENJOY!!! Redistribution in any other form is prohibited.

More worksheets and activities available at
www.mathwarehouse.com/classroom/worksheets-and-activities.php

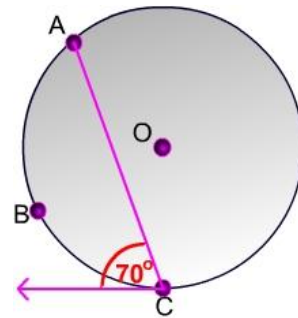
Play Math Games at TheMathGames.com

The Formula

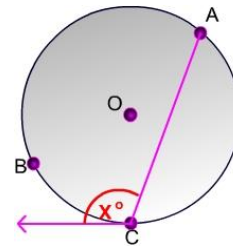


$$x = \frac{1}{2} m \widehat{ABC}$$

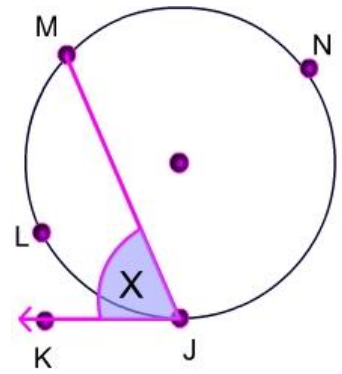
1) What is $m \widehat{ABC}$?



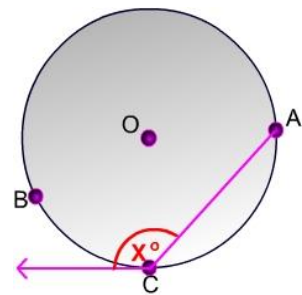
2) If $m \widehat{ABC} = 200$, what is the value of X?



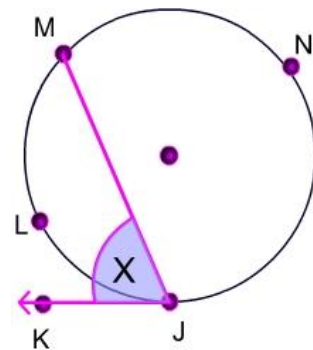
3) $\widehat{JLM} : \widehat{MNJ} = 1 : 5$, what is $m\angle x$?



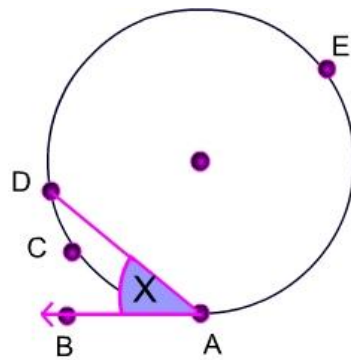
4) What must the value of x be for $m\widehat{ABC}$ to equal $\frac{3}{4}$ the total measure of a circle?



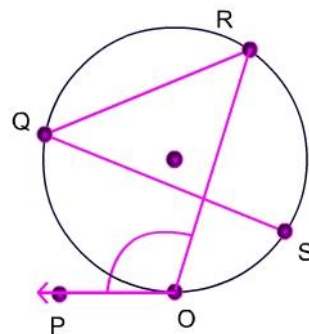
5) $\widehat{JLM} : \widehat{MNJ} = 2 : 7$, what is $m\angle x$?



- 6) \overline{AB} is a tangent
 $\widehat{ACD} : \widehat{DEA} = 1 : 8$, what is the value of X ?



- 7) \overline{PO} is a tangent. $\angle RQS = 30^\circ$, $\widehat{QR} : \widehat{RS} : \widehat{SQ} = 3 : 1 : 2$, what is $m\angle ROP$?



Think-Pair-Share

Danielle, Ray and Angel were trying to solve the following problem:

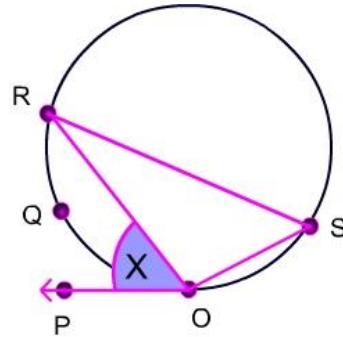
“ What is the measure $m\angle s$ in terms of x ? ”

Danielle says that $m\angle s = 2x$.

Ray says that $m\angle s = \frac{1}{2}x$.

Angel says that $m\angle s = x$

Who do you think is correct? Explain



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