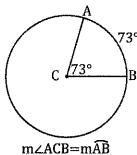
workshut # 2_ Central Angles and Inscribed Angles

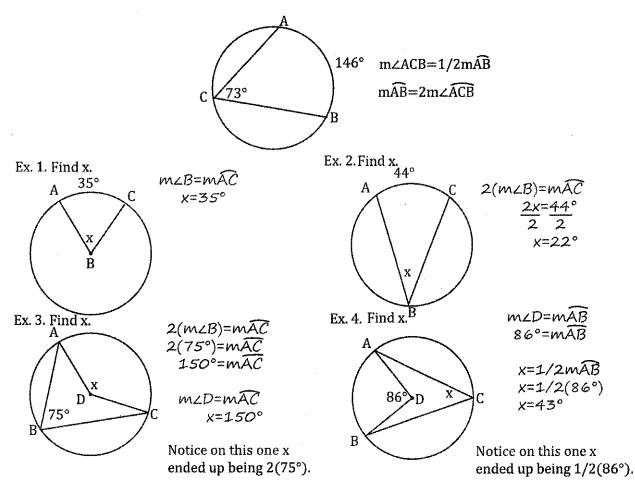
What's in a circle...

Angles! That's what... Okay, here are some really cool angles that go inside circles. They are actually pretty easy but can get tricky at times. Let's take a look.

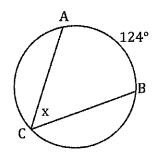
<u>Central Angles</u>: A central angles is an angle that has its vertex at the center of the a circle and extends to the edge of the circle. Like the picture. Its measurement is equal to the measurement of its included arc. (The arc that is in the interior of the circle.) This makes sense because in order to measure an angle, we basically draw an arc between the rays with our protractor, and see how many degrees it is. Study the picture.



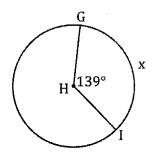
An <u>Inscribed angle</u> is an angle that has its vertex on the edge of the circle extending inward to the opposite edge of the circle. Its measurement is half its included arc, and consequently the included arc is twice the inscribed angle. Like this...



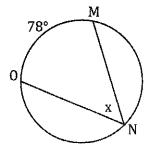
For these... find the value of x. Show all your work... 1.



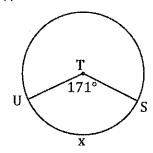
3.

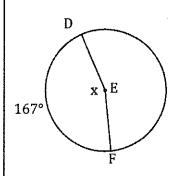


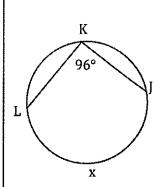
5.



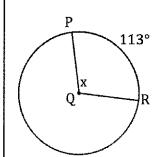
7.

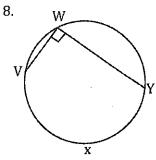






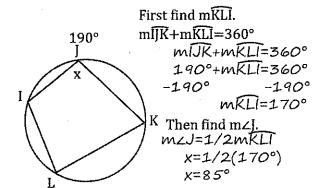
6.



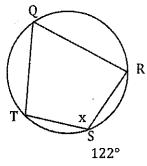


Bubble all the correct answers from above. Don't bubble incorrect answers.

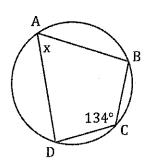
17. mIJK=190°



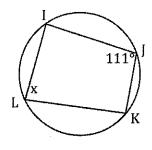
19. mRST=122°

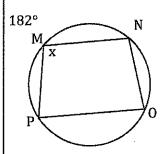


21.

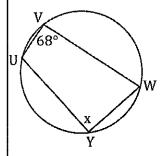


23.

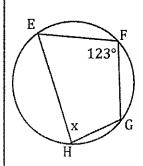




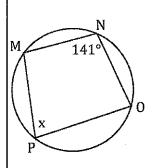
20. First find mUYW.



22.



24.



Bubble all the correct answers from above. Don't bubble incorrect answers.

 $\bigcirc 114^{\circ} \bigcirc 56^{\circ} \bigcirc 69^{\circ} \bigcirc 57^{\circ} \bigcirc 47^{\circ} \bigcirc 119^{\circ} \bigcirc 231^{\circ} \bigcirc 46^{\circ} \bigcirc 39^{\circ} \bigcirc 85^{\circ} \bigcirc 89^{\circ} \bigcirc 162^{\circ} \bigcirc 136^{\circ} \bigcirc 224^{\circ}$