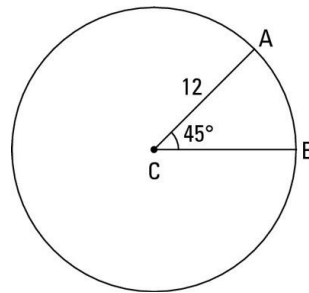


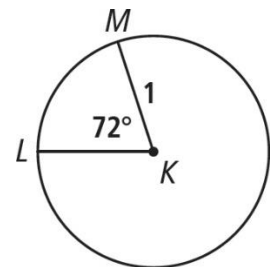
Geometry Test – Circles

Name _____

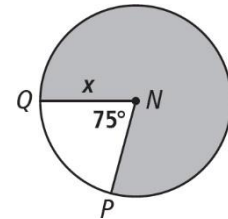
1. What is the length of \widehat{AB} ?



2. What is the length of \widehat{LM} ? You may express your answer as a decimal or by including π .

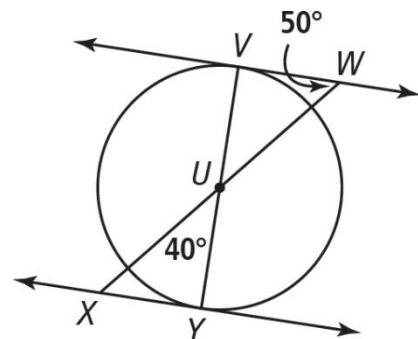


3. What is the area of the UNshaded part of $\odot N$? You may express your answer in terms of π or as a decimal. Let $x = 4$.



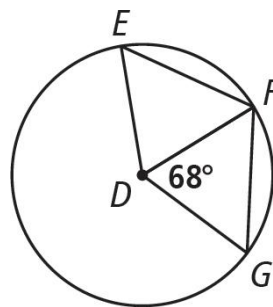
4. \overline{XY} is tangent to $\odot U$ at point Y. Is each statement true for $\odot U$?

	Yes	No
$m\angle VUW = m\angle UXY$	<input type="checkbox"/>	<input type="checkbox"/>
$m\angle VWU = m\angle YXU$	<input type="checkbox"/>	<input type="checkbox"/>
\overline{VW} is tangent to $\odot U$ at point V.	<input type="checkbox"/>	<input type="checkbox"/>



5. Given $\odot D$ and $\overline{EF} \cong \overline{FG}$, what is $m\widehat{EF}$?

- A 34
 B 38
 C 68
 D 136



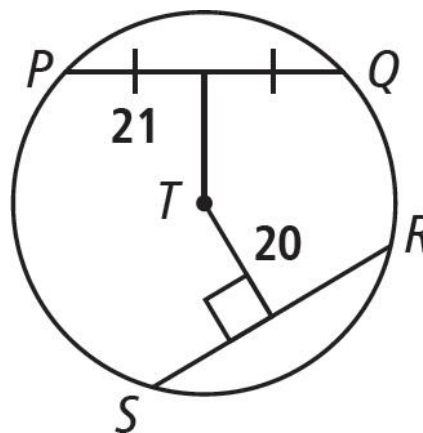
For Items 6 and 7, use $\odot T$ with $\overline{PQ} \cong \overline{SR}$.

6. What is SR ?

- A 58
 B 42
 C 41
 D 40

7. What is the radius of $\odot T$?

- A 20
 B 21
 C 29
 D 41



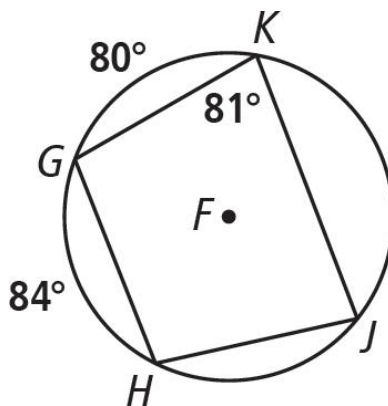
For Items 8 and 9, use $\odot F$.

8. What is $m\angle HJK$?

- A 80
 B 81
 C 82
 D 84

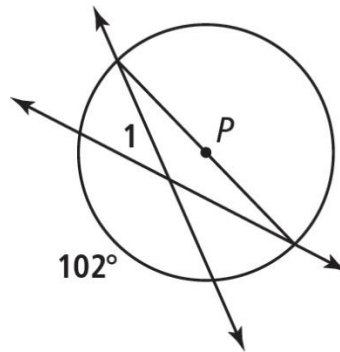
9. What is $m\widehat{HJ}$?

- A 82
 B 81
 C 80
 D 78

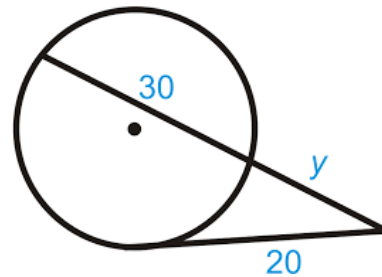


10. In $\odot Q$, what is $m\angle 1$?

- A 33
- B 39
- C 51
- D 57

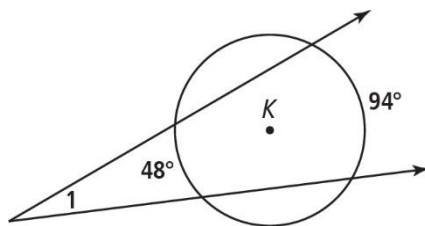


11. For the circle shown below, what is the value of y ?



12. What is $m\angle 1$?

- A 21
- B 23
- C 24
- D 47



FIRST.... Take a deeeeeeeep breath.....ok

For BONUS questions 1-3, use $\odot P$ with all of the following pieces of information:

$$m\angle KPH = 100, \overline{HK} \cong \overline{LN}, \text{ and } \overline{JK} \cong \overline{LM}.$$

1. Which angle is congruent to $\angle JPH$?
2. If $m\widehat{LM} = 60$, what is $m\widehat{JH}$?
3. Which segment is congruent to \overline{MN} ?

