$\qquad$

1. Which diagram below is accurately labeled with the correct degree measurements for the angle and arc that are labeled?
a.

b.

c.

d.

2. In circle $B, m \widehat{P S}=165^{\circ}$. Determine the following measures:
A. $m \angle P B S=$ $\qquad$
B. $m \angle P C S=$ $\qquad$
C. $m \widehat{P C S}=$ $\qquad$

3. In question $\# 2$ above, the figure provided for option C is incorrectly labeled. Explain why it is incorrect and explain how you would revise it so that the circle is labeled correctly.
4. In circle $\mathrm{M}, m \angle L K N=35^{\circ}$. Determine the following measures:
A. $m \angle L M N=$ $\qquad$
B. $m \widehat{L N}=$ $\qquad$

5. Use the given information provided in circle $M$ to set up an equation that represents the relationship between $m \angle E Z A$ and $m \angle E M A$. Then solve your equation and use your solution to determine the following measures:
A. $m \angle E Z A=$ $\qquad$
B. $m \angle E M A=$ $\qquad$
C. $m \widehat{E A}=$ $\qquad$
D. $m \widehat{E Z A}=$ $\qquad$


A
6. Circle T is shown four times, but in each case, point R is in a different location on the circle. The inscribed angle shown in each circle, $\angle P R J$, is a right angle.
A. In each circle, what is the measure of $\widehat{P J}$ ?

B. Based on your answer to Part A, make a few conjectures about what else appears to be true when an inscribed angle has a measure of $90^{\circ}$.

