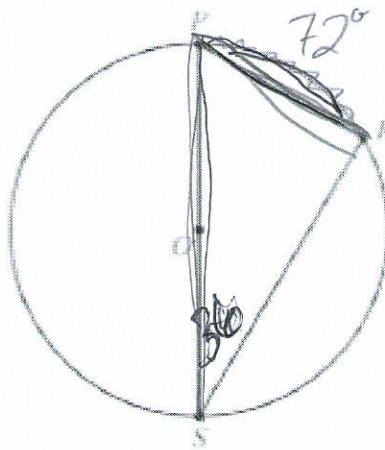


4. In circle  $O$ ,  $\overline{PS}$  is a diameter. The measure of  $\widehat{PR}$  is  $72^\circ$ .



not drawn to scale

$\angle SPR$  is an inscribed angle

$$\text{so } m\angle = \frac{m\text{arc}}{2}$$

first find  $m\text{arc}$

$\overline{PS}$  is a diameter so circle

cut in half. so  $\widehat{PRS} = 180^\circ$

If  $\widehat{PR} = 72^\circ$  then  $\widehat{RS} = 180^\circ -$

$$\widehat{RS} = 108^\circ$$

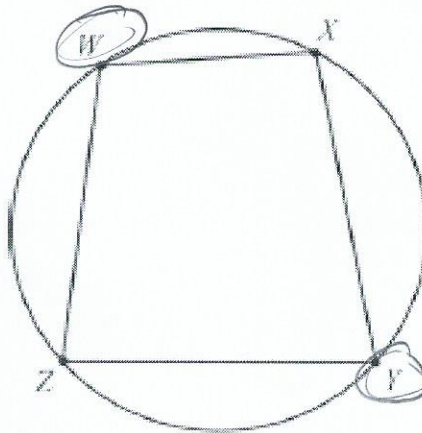
$$\text{so } m\angle = \frac{108}{2}$$

$$m\angle = 54^\circ$$

What is the measure of  $\angle SPR$ ?

- A.  $36^\circ$
- B.  $54^\circ$**
- C.  $72^\circ$
- D.  $108^\circ$

5. Quadrilateral  $WXYZ$  is inscribed in this circle.



opposite angles add to  $180^\circ$

complementary means adds up to  $90^\circ$

supplementary means add up to  $180^\circ$

Which statement must be true?

- A.  $\angle W$  and  $\angle Y$  are complementary.
- B.  $\angle W$  and  $\angle Y$  are supplementary.**
- C.  $\angle Z$  and  $\angle Y$  are complementary.
- D.  $\angle Z$  and  $\angle Y$  are supplementary.

so  $W$  &  $Y$  must add to  $180^\circ$

so they are supplementary