Practice B

For use with pages 102-107

Match the statement with the Property of Congruence.

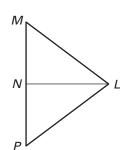
- **1.** For any segment \overline{XY} , $\overline{XY} \cong \overline{XY}$
- **2.** If $\overline{JK} \cong \overline{MN}$ and $\overline{MN} \cong \overline{CD}$, then $\overline{JK} \cong \overline{CD}$.
- **3.** If $\overline{BN} \cong \overline{TR}$, then $\overline{TR} \cong \overline{BN}$.

- **A.** Transitive Property
- **B.** Symmetric Property
- C. Reflexive Property

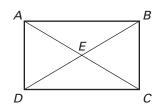
Mark the diagram with the given information.

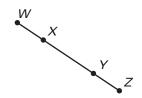
4.
$$LM = 5, LP = 5$$

 $MN = 3, PN = 3$



5. E is the midpoint of \overline{AC} . E is the midpoint of \overline{BD} .



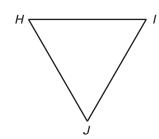


6. $\overline{WX} \cong \overline{YZ}$

Complete the argument, giving a reason for each step.

7. Given: HI = 8, IJ = 8, $\overline{IJ} \cong \overline{JH}$

Prove: $\overline{HI} \cong \overline{JH}$



8. Given: AL = SK

Prove: AS = LK



- **Statements** Reasons 1. HI = 8

- **2.** ? **2.** IJ = 83. HI = IJ**4.** $\overline{HI} \cong \overline{IJ}$ 5. $\overline{IJ} \cong \overline{JH}$ **6**. $\overline{HI} \cong \overline{JH}$ 6.

Statements Reasons

- 1. AL = SK**2.** LS = LS**2.** ? **3.** ? 3. AL + LS = SK + LS4. AL + LS = AS5. SK + LS = LK $6. \ AS = LK$
- **9.** Write an argument for Exercise 7 in the form of a paragraph proof.