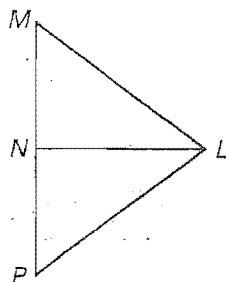


Match the statement with the Property of Congruence.

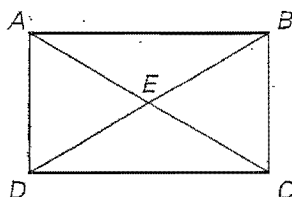
- | | |
|--|------------------------|
| 1. For any segment \overline{XY} , $\overline{XY} \cong \overline{XY}$ | A. Transitive Property |
| 2. If $\overline{JK} \cong \overline{MN}$ and $\overline{MN} \cong \overline{CD}$, then $\overline{JK} \cong \overline{CD}$. | B. Symmetric Property |
| 3. If $\overline{BN} \cong \overline{TR}$, then $\overline{TR} \cong \overline{BN}$. | C. Reflexive Property |

Mark the diagram with the given information.

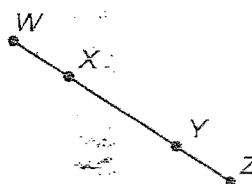
4. $LM = 5$, $LP = 5$
 $MN = 3$, $PN = 3$



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



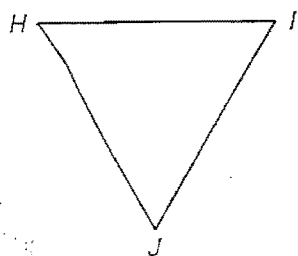
6. $\overline{WX} \cong \overline{YZ}$



Complete the argument, giving a reason for each step

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

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



Statements

1. $HI = 8$

2. $IJ = 8$

3. $HI = IJ$

4. $\overline{HI} \cong \overline{IJ}$

5. $\overline{IJ} \cong \overline{JH}$

6. $\overline{HI} \cong \overline{JH}$

Reasons

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Given: B is between A and D .

C is between B and D .

Prove: $AD = AB + BC + CD$



Statements

1. B is between A and D
 C is between B and D

2. $AD = AB + BD$

3. $BD = BC + CD$

4. $AD = AB + BC + CD$

Reasons

1. _____

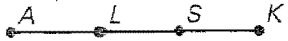
2. _____

3. _____

4. _____

Given: $AL = SK$

Prove: $AS = LK$



Statements

Reasons

1. $AL = SK$

1. _____

2. $LS = LS$

2. _____

3. $AL + LS = SK + LS$

3. _____

4. $AL + LS = AS$

4. _____

5. $SK + LS = LK$

5. _____

6. $AS = LK$

6. _____