LESSON 2.5

NAME _____ DATE _____

Practice A

For use with pages 102–107

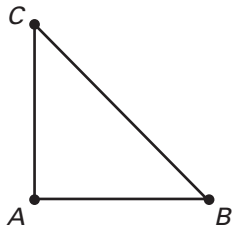
Match the statement with the Property of Congruence.

1. If $\overline{CD} \cong \overline{PM}$ and $\overline{PM} \cong \overline{RV}$, then $\overline{CD} \cong \overline{RV}$.
2. For any segment $\overline{DS}$, $\overline{DS} \cong \overline{DS}$.
3. If $\overline{RA} \cong \overline{DB}$, then $\overline{DB} \cong \overline{RA}$.

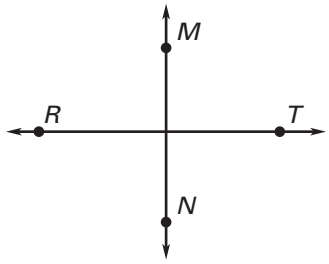
A. Symmetric Property
B. Reflexive Property
C. Transitive Property

Mark the diagram with the given information.

4. $\overline{AB} \cong \overline{AC}$

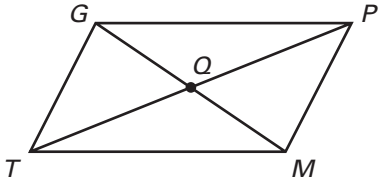


5. $\overleftrightarrow{TR} \perp \overleftrightarrow{MN}$



6. $MA = 5, AT = 5$

7. $GQ = 4, MQ = 4$
$TQ = 6, PQ = 6$

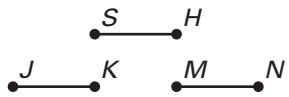


8. A is the midpoint of $\overline{SR}$

9. $\overline{BN} \cong \overline{DM}$

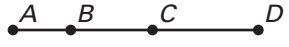
Complete the argument, giving a reason for each step.

10. **Given:** $\overline{JK} \cong \overline{SH}$, $\overline{SH} \cong \overline{MN}$
Prove: $\overline{JK} \cong \overline{MN}$



Statements	Reasons
1. $\overline{JK} \cong \overline{SH}$	1. ?
2. $\overline{SH} \cong \overline{MN}$	2. ?
3. $\overline{JK} \cong \overline{MN}$	3. ?

11. **Given:** B is between A and D.
C is between B and D.
Prove: $AD = AB + BC + CD$



Statements	Reasons
1. B is between A and D. C is between B and D.	1. Given
2. $AD = AB + BD$	2. ?
3. $BD = BC + CD$	3. ?
4. $AD = AB + BC + CD$	4. ?

12. Write an argument for Exercise 11 in the form of a paragraph proof.