

# Assignment #9

## Proofs with Segments

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

1. Given:  $\overline{AC} \cong \overline{BD}$

Prove:  $\overline{AB} \cong \overline{CD}$



Statements	Reasons

2. Given:  $\overline{AB} \cong \overline{CD}$

Prove:  $\overline{AC} \cong \overline{BD}$



Statements	Reasons

3. Given: M is the midpoint of  $\overline{LN}$

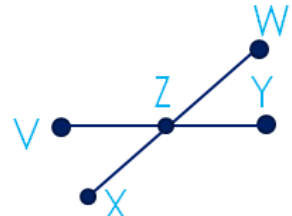
Prove:  $2MN = LN$



Statements	Reasons

4. Given:  $\overline{VY} \cong \overline{XW}$ ,  $\overline{ZY} \cong \overline{ZW}$

Prove:  $\overline{VZ} \cong \overline{XZ}$



Statements	Reasons