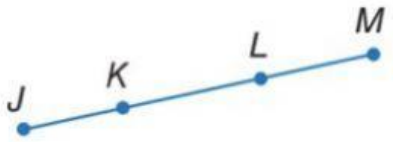
Name: ..... **Class:** .....

Copy and complete the proof.



1. Given: $\overline{JL} \cong \overline{KM}$

   Prove: $\overline{JK} \cong \overline{LM}$

   Proof:

Statements	Reasons
a. $\overline{JL} \cong \overline{KM}$	a. Given
b. $JL = KM$	b.
c. $JK + KL =$; $KL + LM =$	c. Segment Addition Postulate
d. $JK + KL = KL + LM$	d.
e. $JK + KL - KL = KL + LM - KL$	e. Subtraction Property of Equality
f.	f. Substitution
g. $\overline{JK} \cong \overline{LM}$	g. Definition of congruence

JL | JK = LM | KM | Substitution | Definition of Congruence

LIVEWORKSHEETS