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Given: 
$$m \not\leq 2 = m \not\leq 3$$
;  $\overline{MG} \perp \overline{KL}$ ;  $KI = IL$ ;  $IL = MI$ 

- **9.** 45 ≅ 46 If lines  $\bot$ , then adj  $\measuredangle$ s  $\cong$
- **10.** KI = MI**Transitive Prop OR Substitution**
- **11.** *I* is the midpoint of  $\overline{KL}$ Def of midpoint

**12.** 45 ≅ 4*LIG* Vert  $\measuredangle$ s are  $\cong$  **13.** 2(KI) = 2(IL)**Multiplication Property** 

**T** T . .

**14.**  $\measuredangle 5$  is a right angle Def of  $\perp$  lines

**15.**  $\overrightarrow{IJ}$  bisects  $\measuredangle MIL$ Def of ∡ bisector

**16.**  $m \neq 3 + m \neq 4 = m \neq MIL$ ∡ Add Postulate