

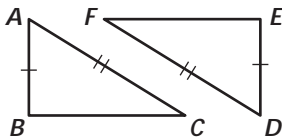
Practice 8-3

Mixed Exercises

Write a two-column proof.

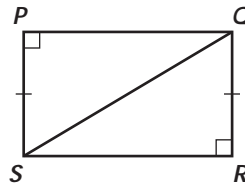
1. Given: $\overline{AB} \perp \overline{BC}, \overline{ED} \perp \overline{FE}, \overline{AB} \cong \overline{ED}, \overline{AC} \cong \overline{FD}$

Prove: $\triangle ABC \cong \triangle DEF$



2. Given: $\angle P$ and $\angle R$ are right angles, $\overline{PS} \cong \overline{QR}$

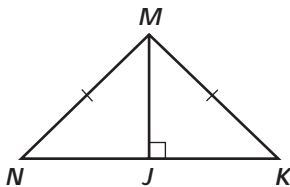
Prove: $\triangle PQS \cong \triangle RSQ$



Write a flow proof.

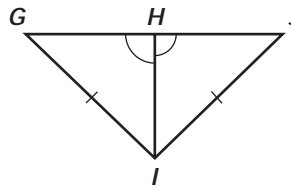
3. Given: $\overline{MJ} \perp \overline{NK}, \overline{MN} \cong \overline{MK}$

Prove: $\triangle MJN \cong \triangle MJK$



4. Given: $\overline{GI} \cong \overline{JI}, \angle GHI \cong \angle JHI$

Prove: $\triangle IHG \cong \triangle IJH$



What additional information would you need to prove the triangles congruent by the HL Theorem?

