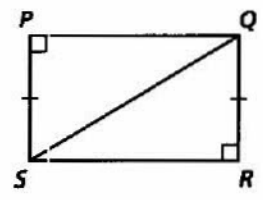
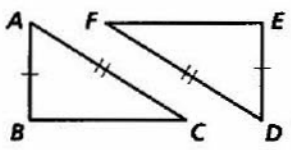


# Practice 4-6

## Congruence in Right Triangles

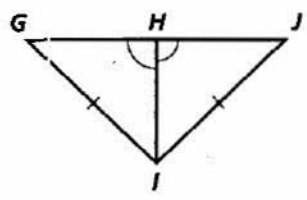
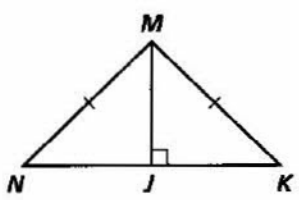
Write a two-column proof.

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:  $\triangle IHG \cong \triangle IHJ$



What additional information do you need to prove each pair of triangles congruent by the HL Theorem?

- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.

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