

NAME

QUARTER

GRADE &amp; SECTION

DATE

Activity: **Proving Triangles are Congruent (SSS)**

Complete the two-column proof to prove that the triangles are congruent.

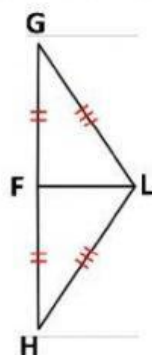
A) **GIVEN:**

$$\overline{GF} \cong \overline{HF}$$

$$\overline{GL} \cong \overline{HL}$$

**Prove that**

$$\triangle LFG \cong \triangle LFH$$



| Statement                                          | Reason                   |
|----------------------------------------------------|--------------------------|
| $\overline{GF} \cong \overline{HF}$                | (1) <input type="text"/> |
| (2) <input type="text"/>                           | Given                    |
| (3) $\overline{FL} \cong \underline{\hspace{1cm}}$ | (4) <input type="text"/> |
| $\triangle LFG \cong \triangle LFH$                | (5) <input type="text"/> |

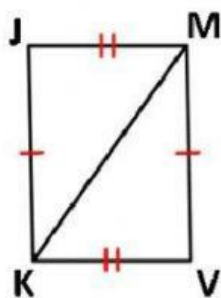
B) **GIVEN:**

$$\overline{JK} \cong \overline{VM}$$

$$\overline{JM} \cong \overline{VK}$$

**Prove that**

$$\triangle JMK \cong \triangle VKM$$



| Statement                                          | Reason                   |
|----------------------------------------------------|--------------------------|
| (1) <input type="text"/>                           | Given                    |
| $\overline{JM} \cong \overline{VK}$                | (2) <input type="text"/> |
| (3) $\overline{KM} \cong \underline{\hspace{1cm}}$ | (4) <input type="text"/> |
| $\triangle JMK \cong \triangle VKM$                | (5) <input type="text"/> |

How well did you do?



Need help!



Just OK!



Splendid

I FEEL THAT:

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