

Geometry Honors  
Proof Template

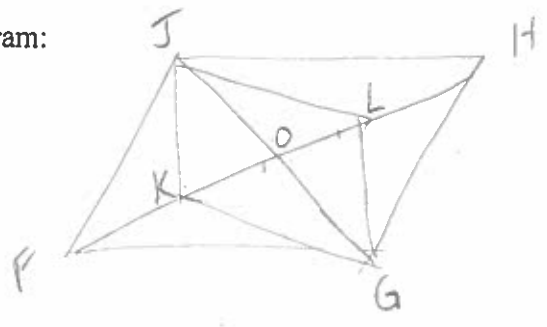
Name Key

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Given:  $\square KGLJ$   
 $FK = HL$

Prove:  $FGHJ$  is a  $\square$

Diagram:



Statement	Reason
1. $\square KGLJ$	1. Given
2. $\overline{KL} + \overline{JG}$ bisect each other	2. Diag. of a $\square$ bis. each other
3. O is mdpt. of $\overline{KL} + \overline{JG}$	3. def. bisect
4. $\overline{KO} \cong \overline{OL}$ ; $\overline{JO} \cong \overline{OG}$	4. def. mdpt.
5. $KO = OL$	5. def. $\cong$
6. $FK = HL$	6. Given
7. $KO + FK = OL + HL$	7. Add'n Prop. =
8. $KO + FK = FO$ ; $OL + HL = OH$	8. Seg. Add'n Post.
9. $FO = OH$	9. Subst.
10. $\overline{FO} \cong \overline{OH}$	10. def. $\cong$
11. O is mdpt. of $\overline{FH}$	11. def. mdpt.
12. $\overline{FH} + \overline{JG}$ bisect each other	12. def. bisect.
13. $FGHJ$ is $\square$	13. if diag. of quad. bisect each other $\rightarrow \square$