

MATH 8 Q4 - LEARNING ACTIVITY SHEET 3b



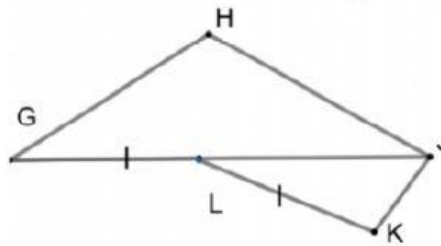
Activity 1:

Write the letter of your correct answer on the box provided.

Directions: Complete the following proof by choosing the missing statements or reasons, from the box.

E. Given: $GL = LK$

Prove: $JH + GH > JK$



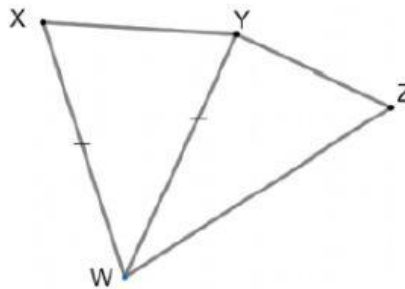
CHOICES:

a. Transitive property	b. Δ inequality Theorem	c. LJ	d. $GL = LK$	e. GJ
Proof:				f. Given

Statements	Reasons
1. _____	1. I _____
2. $JH + GH > \underline{\hspace{2cm}}$	2. Δ inequality Theorem
3. $GL + \underline{\hspace{2cm}} = GJ$	3. Segment addition Postulate
4. $JH + GH > GL + LJ$	4. Substitution
5. $JH + GH > LK + LJ$	5. Substitution
6. $LK + LJ > JK$	6. _____
7. $JH + GH > JK$	7. _____

F. Given: $\overline{XW} \cong \overline{YW}$

Prove: $YZ + ZW > XW$



CHOICES:

a. Definition of congruent segments	b. Given	c. Substitution	d. Triangle Inequality Theorem
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Proof:

Statements	Reasons
1. $\overline{XW} \cong \overline{YW}$	1. _____
2. $XW = YW$	2. _____
3. $YZ + ZW > YW$	3. _____
4. $YZ + ZW > XW$	4. _____

TOTAL : 10 POINTS