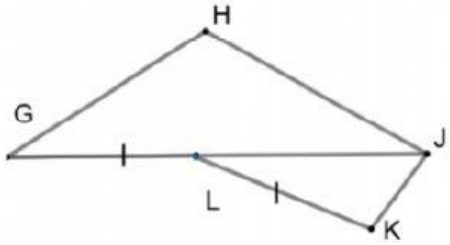
MATH 8 Q4 - LEARNING ACTIVITY SHEET 3b

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



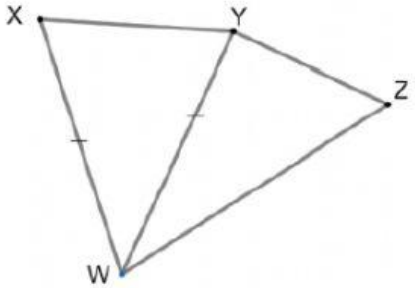
CHOICES:

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

Proof:

Statements	Reasons
1. _____	1. _____
2. JH + GH > _____	2. Δ inequality Theorem
3. GL + _____ = 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

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

LIVEWORKSHEETS