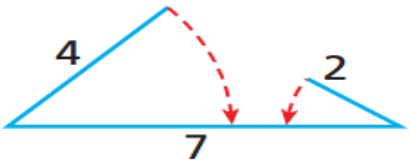
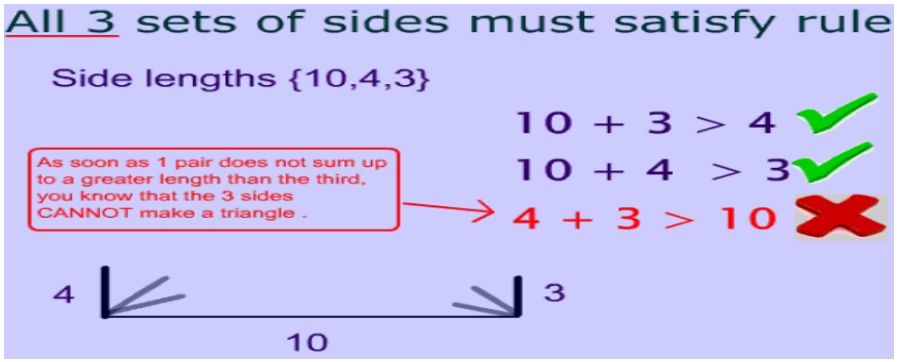
Topic/Objective: Triangles	Name: _____ Grade/Subject: _____ Date: _____/ _____/ _____ Period: _____
Essential Question/Main Idea	**What is the Triangle Inequality Theorem?**

QUESTIONS	NOTES
What is the **Triangle Inequality Theorem?**	The **Triangle Inequality Theorem** is a **"Rule"** in Geometry that states that the sum of the 2 shortest sides of a triangle must be greater than the 3rd side…Otherwise, it cannot be a triangle?
I don't understand…can I see an example?	Can form a triangle
	 Cannot form a triangle
	In the example above, the 2 shortest sides are 4 & 5, which add up to 9. Since 9 is greater than the 3rd side…7, then a triangle can be formed.
	In the example above, the 2 shortest sides are 4 & 2, which add up to 6. Since 6 is less than than the 3rd side…7, then a triangle cannot be formed.
Can't I pick any 2 sides?	**TIP!** You can check **<u>any</u>** 2 sides against the 3rd, but if you pick the 2 **<u>shortest</u>** sides first…that should save you some time.
	

SUMMARY: Write 3 to 4 sentences summarizing what you have learned about this lesson.

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