“Draw Strings”

DITTO #1

Possible Triangles	Not Triangles

List two things you notice about the set of numbers listed under the “possible triangles.”

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List one thing you notice about the set of 3 numbers listed under the “not triangles.”

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Do you believe there is a formula possible triangles according to the lengths of the sides?

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If so, write what you think the formula may look like.

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Actual formula.

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DITTO 2

A + B > C and **B + C > A** and **A + C > B**

Each side is on a side by itself at least one time in the three equations.

Circle all sets of numbers that can be sides to a triangles. Place an X through all sets of numbers that cannot be sides to a triangle.

1 , 2 , 3	4 , 4 , 4	5 , 6 , 7
2 , 4 , 6	10 , 20 , 30	8 , 5 , 8
1 , 2 , 1	3 , 4 , 12	3 , 4 , 5
9 , 12 , 13	2.1 , 6.3 , 4.4	8 , 9 , 2

There are sticks of wood cut to lengths 3 , 4 , 5 , 6 , 7 , 8 and 9 feet. You have a 5 foot and 10 foot piece already laid on the ground, end to end. Name <u>all</u> the lengths of logs from above that could possibly be the third side to this triangle.

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