

TEACHER “Draw Strings”

DITTO #1

Possible Triangles

Not Triangles

2,3,4

2,3,5

2,4,5

3,3,4

3,3,5

3,4,5

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

Student’s answers will vary _____

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

Student’s answers will vary _____

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

Student’s answers will vary _____

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

Student’s answers will vary _____

Actual formula.

DITTO 2

$$A + B > C \quad \text{and} \quad B + C > A \quad \text{and} \quad A + C > B$$

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 all the lengths of logs from above that could possibly be the third side to this triangle.

**345, 346, 456, 457, 458, 467, 468, 469, 478, 479,
489, 567, 568, 569, 578, 579, 678, 679, 789**