

WHICH THREE LINE SEGMENTS MAKE A TRIANGLE?

Name: _____ Date: _____ Period: _____

Group Members: _____

Each student or group of students needs a few pieces of dried spaghetti.

1. Break a piece of spaghetti into three pieces and try to make a triangle with them. Did it work? Try again with different pieces of spaghetti until you have made two different triangles. Keep track of which DO and which DO NOT make a triangle.

Pieces that DO make triangles have this in common:

Pieces that DO NOT make triangles have this in common:

(Continued)

2. Make a conjecture: In order to make a triangle...

3. Justify your conjecture using diagrams and what you know about triangles.