

4.3 Investigation

Materials: paper ruler, protractor, bag of 5 foam "sticks"

1) Use various combinations of 3 "sticks" to see if you can make triangles with 3 "sticks". Ignore width of sticks (assume segments.)

2) As you notice what works & does not "work", measure sticks and make a conjecture about what must be true about the lengths of the sides in order to connect to make a triangle.

3) Set up a triangle ~~that~~ on your desk and approximate the 3 angles measures & the 3 side lengths.

4) What do you notice about the relationships between lengths of sides and size of angles? Hint (use the word "opposite").

5) Be prepared to share your conclusions.