**Geometry Team Challenge – G.1**

**Base and Height**

Mrs. Lito asked her students to label a base *b* and its corresponding height *h* in the triangle shown.



Three students drew the figures below.

1. Raul



1. Mark



1. Kiki



1. Which students, if any, have correctly identified a base and its corresponding height? Which ones have not? Explain what is incorrect.
2. There are three possible base-height pairs for this triangle. Sketch all three.

**Finding Areas of Polygons**

Find the area that is shaded in each figure in at least two different ways.

1. 
2. 
3. 
4. 

**Same Base and Height, Variation 1**

Make the following triangles on a geoboard. Remember that the pegs are equally spaced in a square grid. Compare the areas of the triangles.

* Which has the greatest area?
* Which has the least area?
* Do any of the triangles have the same area?
* Are some areas impossible to compare?

Explain why you answered as you did.

