

## Honors Geometry POW: How Many Triangles?

Due at the beginning of class on Monday 8/20/2018

The figure below consists of many different triangles. Different triangles can be obtained by combining sections (see shaded area). There are 5 different sizes of right triangles, 3 different sizes of equilateral triangles, and 3 different sizes of isosceles triangles (not equilateral). Sketch each different type and size of triangle (showing the lines that appear in it), and then determine the number of triangles of that size and type that are in the figure. You should have a table that summarizes your findings included in your write-up that fully explains how you found each triangle and determined the number present within the figure.

