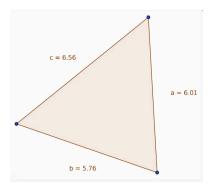
Heron's Formula - Calculating the Area of a Single Triangle.

Heron's formula is a way to calculate the area of ANY triangle, knowing the lengths of it's three sides, a, b and c.



First, calculate the semiperimeter. This is just half of the triangle's perimeter.

$$s = (a + b + c) / 2$$

In our example,
 $s = (6.56 + 6.01 + 5.76)/2$
 $s = 9.165$

Then, calculate the following differences:

s - a

s - b

s-c

E.g.

s - a = 9.165 - 6.56 = 2.605

$$s - b = 9.165 - 6.01 = 3.155$$

$$s - c = 9.165 - 5.76 = 3.405$$

Finally, substitute your answers into the following equation: sqrt= square root

$$A = sqrt(s * (s-a) * (s-b) * (s-c))$$

(Multiply the three differences together, along with the semiperimeter, and then take the square root.)

A = sqrt(256.482)

A = 16.015

This gives the area of a single triangle.

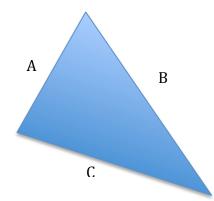
You give it a shot now. Feel free to get help from those who love math in your house! But make sure that you understand it.

Length of side

A= 8

B= 16

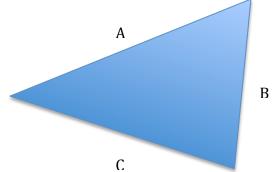
C= 12



A= 210.6

B= 110.3

C = 120.9



For the more daring among you!

A= 14

B= 12

C=8

D= 16

