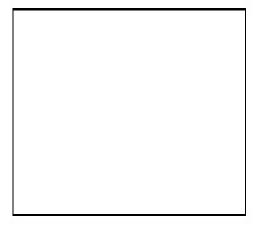
I. For this activity you will work with **our** congruent right triangles and three squares, one for each side of the triangle.

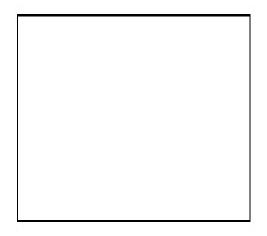
A. Use the four triangles and the two smaller squares to make a single square. What is the length of one side of this square? Ans._____

Record below the pattern you use in the square labeled A.

B. Use the four triangles and the largest square to make a single square. What is the length of one side of this square? Ans._____

Record the pattern you use below in the square labeled B.





В

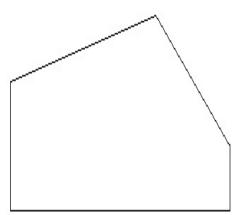
II. For this activity you will work with **two** congruent right triangles and three squares, one for each side of the triangle.

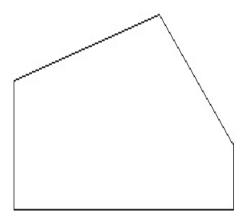
A. Use two triangles and the two smaller squares to make a single pentagon. Record below the pattern you use on the pentagon labeled A.

What are the lengths of the sides of the pentagon? Ans._____

B. Use the two triangles and the largest square to make a single pentagon Record below the pattern you use on the pentagon labeled B.

What are the lengths of the sides of the pentagon? Ans._____





A

III. Using either I or II, write an explanation of why the previous work shows that the largest square has the same area as the two smaller squares combined.

В