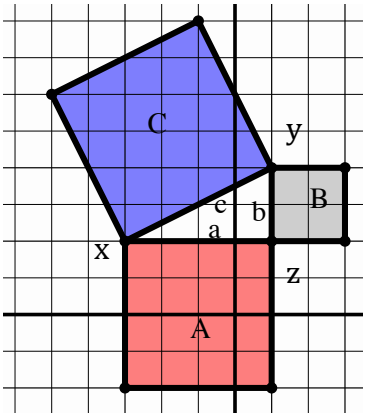
Name: _____ Period: _____

Areas and Side Lengths

Fill out the information in each table using the information provided.

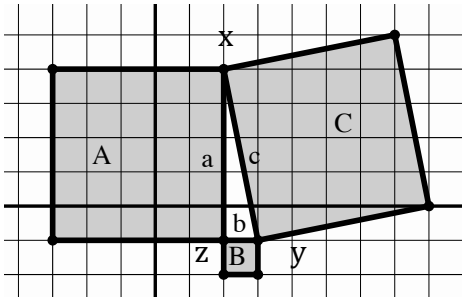
1.

Corners	x = (,)	y = (,)	z = (,)
Side Lengths	a =	b =	c =
Area	A =	B =	C =
Area of Triangle:			



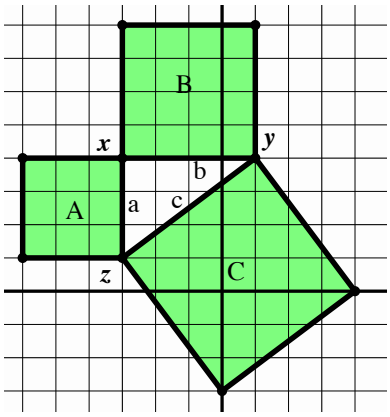
2.

Corners	x = (,)	y = (,)	z = (,)
Side Lengths	a =	b =	c =
Area	A =	B =	C =
Area of Triangle:			



3.

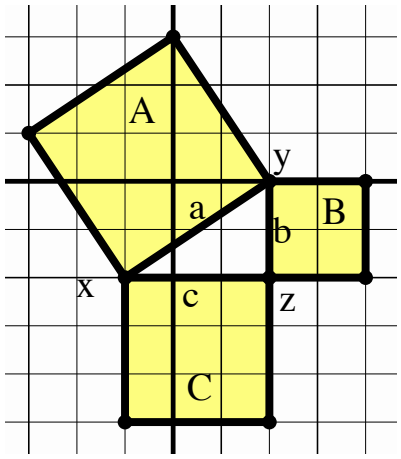
Corners	x = (,)	y = (,)	z = (,)
Side Lengths	a =	b =	c =
Area	A =	B =	C =
Area of Triangle:			



Look at the information you have collected above. What are some patterns you see?

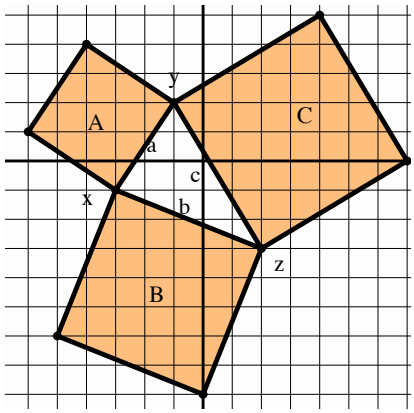
4.

Corners	x = (,)	y = (,)	z = (,)
Side Lengths	a =	b =	c =
Area	A =	B =	C =
Does this fit the pattern above? Why or why not?			



5.

Corners	x = (,)	y = (,)	z = (,)
Side Lengths	a =	b =	c =
Area	A =	B =	C =
Does this fit the pattern above? Why or why not?			



On a right triangle, the two sides that make the right angle are called **LEGS.** Usually labeled "a" and "b". The diagonal side is called a **HYPOTENUSE**. Usually this is labeled "c".

6.

Side Lengths	a =	b =	c =
Area	A =	B =	C =

A right triangle who's legs measure 6 and 8.

A man named Pythagoras noticed the pattern that we are seeing, and he wrote a theorem called the "Pythagorean Theorem". Write the Pythagorean Theorem below: