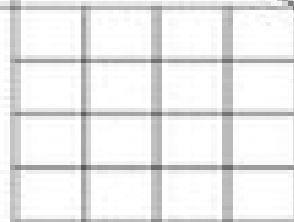
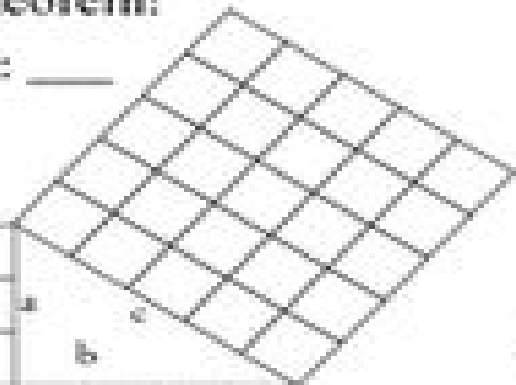
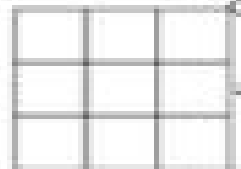
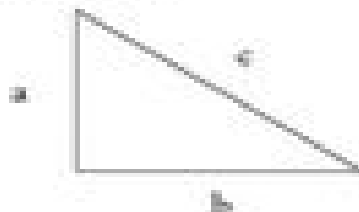


Discover the Pythagorean Theorem!

Name : _____ Period: _____

Behold, a triangle whose sides have lengths of 3, 4, and 5:



Let's draw squares on each side of the triangle. Side *a* is three squares long, side *b* is four squares long, and side *c* is five squares long.

Now let's "square" each side. Side *a* has a 3 by 3 group of squares (= 9) and so on.

Count up the squares associated with side *a* (did I mention the answer is 9?), then count the squares associated with sides *b* and *c*.

Side *a*: _____ squares

Side *b*: _____ squares

Side *c*: _____ squares

Do you notice a relationship between these numbers? Try adding side *a* and side *b* together and comparing that to side *c*. What do you find?

Answer: _____

The Pythagorean theorem, which is mine, and invented by me, was an original idea of mine. If someone tells you that some silly Babylonian thought of it first, you tell him to shove off! --by the way, can you discover it for yourself? (But don't forget I did it first.)



PYTHAGORAS

Illustration courtesy of Anne Groom