THE PYTHAGOREAN THEOREM LEARNING GOAL

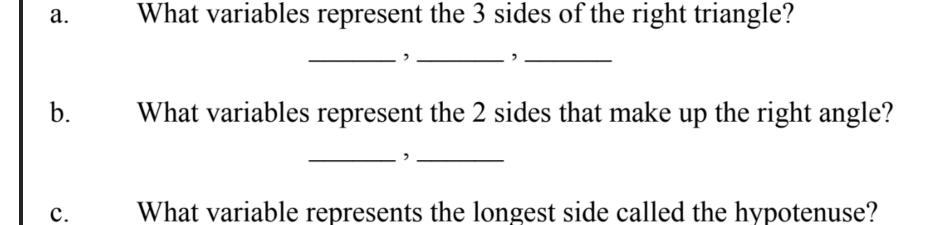
- 1. I know what a^2 , b^2 , and c^2 mean in the context of the pythagorean theorem.
- 2. I can use the pythagorean theorem $a^2+b^2=c^2$ to find the lengths of the hypotenuse of a right triangle.

RESPOND TO FEEDBACK ON YOUR WORK

Directions: If you have a Schoology message from Mr. Durden about your work, choose one question and answer it in the space below.

TAKE NOTES (PART 1)

Directions: Watch the video called "The Pythagorean Theorem" (see Schoology assignment) and take notes on this slide and the next slide.



d. From the following list, circle the shape of the colored area that sits on each side of the triangle.

Circle / Rectangle / Square / Rhombus

TAKE NOTES (PART 2)

Directions: Watch the video called "The Pythagorean Theorem" (see Schoology assignment) and take notes on this slide and the previous slide.

Complete the following statement that defines the Pythagorean Theorem:

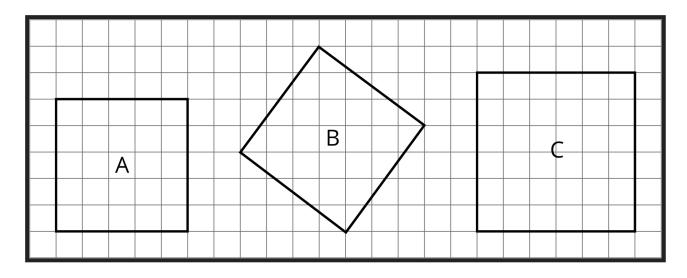
The square of the length of side ____ plus the square of the length of side ____ equals the square of the length side ____ .

Write your statement from above using the variables a, b, and c:

$$\underline{}^2 + \underline{}^2 = \underline{}^2$$

USE THE PYTHAGOREAN THEOREM

Directions: Use the pythagorean theorem to answer the questions below.



1. What is the side length of the middle square? What is its area? Watch the video "Pythagorean Theorem Example" on this assignment and fill in the empty spaces below.

$$c^{2} + c^{2} = c^{2} + c^{2} = c$$
 $c^{2} = c$

THE PYTHAGORAS PUZZLER (OPTIONAL)

Directions: Watch the video The Pythagoras Puzzler

(https://tpt.pbslearningmedia.org/resource/mgbh.math.g.pythagpuz/pythagoras-puzzler/) at this link (https://tpt.pbslearningmedia.org/resource/mgbh.math.g.pythagpuz/pythagoras-puzzler/) and see if you can solve a similar puzzle which is posted on today's assignment in schoology. Take a screenshot of your solved puzzle and paste it in the space below.