

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 The Pythagorean Theorem (<https://tpt.pbslearningmedia.org/resource/mgbh-math-ee-gshreepythag/pythagorean-theorem/>) at this link (<https://tpt.pbslearningmedia.org/resource/mgbh-math-ee-gshreepythag/pythagorean-theorem/>) and take notes on this slide and the next slide.

TAKE NOTES (PART 2)

Directions: Watch the video The Pythagorean Theorem (<https://tpt.pbslearningmedia.org/resource/mgbh-math-ee-gshreepythag/pythagorean-theorem/>) at this link (<https://tpt.pbslearningmedia.org/resource/mgbh-math-ee-gshreepythag/pythagorean-theorem/>) and take notes by filling in the spaces below.

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***:

$$\underline{\hspace{1cm}}^2 + \underline{\hspace{1cm}}^2 = \underline{\hspace{1cm}}^2$$

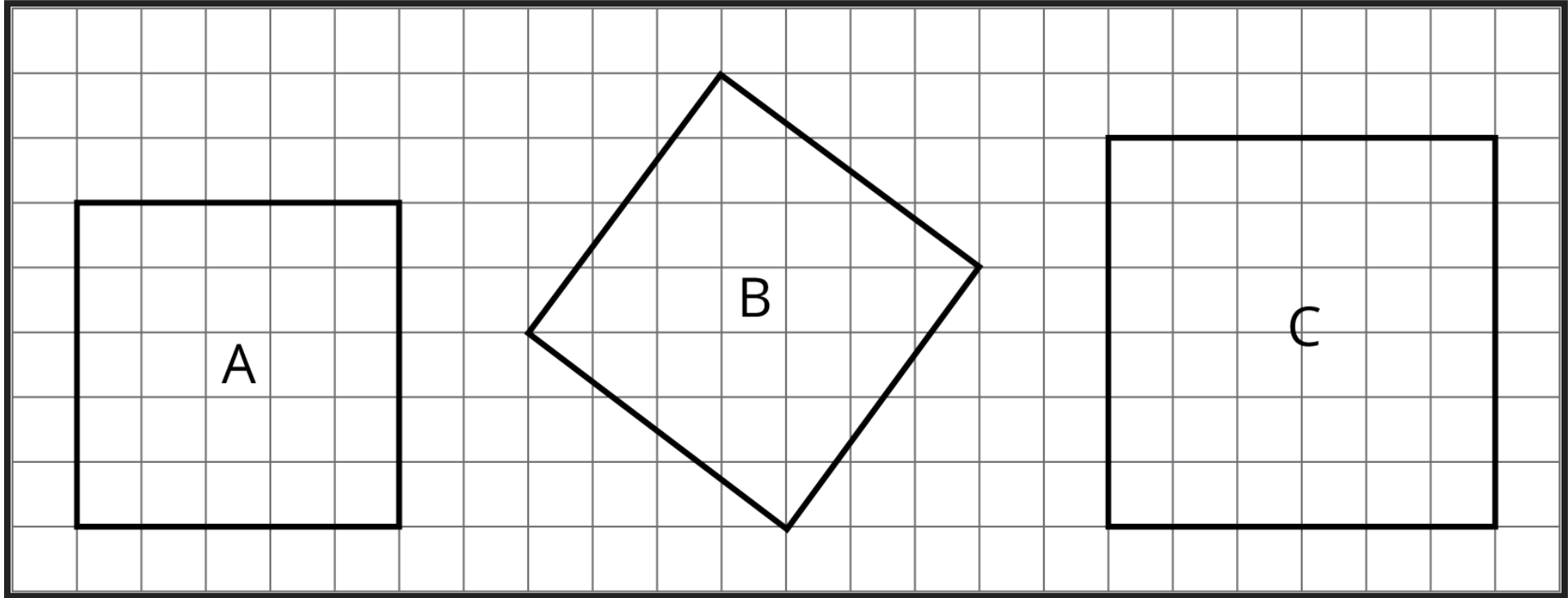
THE PYTHAGORAS PUZZLER

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.

USE THE PYTHAGOREAN THEOREM

Directions: Use the pythagorean theorem to answer the questions below. Watch the video () for a demonstration.



1. What is the side length of the middle square? What is its area?

Directions: $\text{\hrule1cm}^2 + \text{\hrule1cm}^2 = c^2$
 $\text{\hrule1cm} + \text{\hrule1cm} = c^2$ $\text{\hrule1cm} = c$