INTRODUCTION TO PYTHAGOREAN THEOREM

Name: _____ Class: _____ Due Date: _____

Family Member Signature: _____

Objective:

To understand the principle behind the Pythagorean Theorem.

Necessary Information:

Pythagorean Theorem only works on a right-angled triangle. The theory states:

$$A_{SMALLSQUARE} + A_{MEDIUMSQUARE} = A_{BIGSQUARE}$$

Practice Section:

1. Draw a triangle and label the hypotenuse.

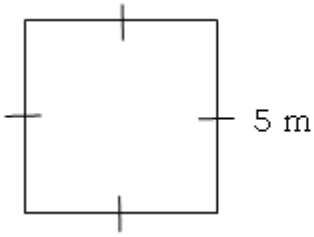
2. What are the three requirements of a hypotenuse?

1 –

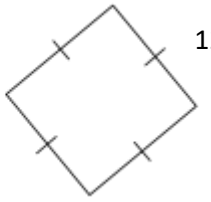
2 –

3 –

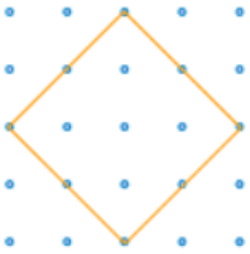
3. Find the area of the squares.

a. 

A = _____

b. 

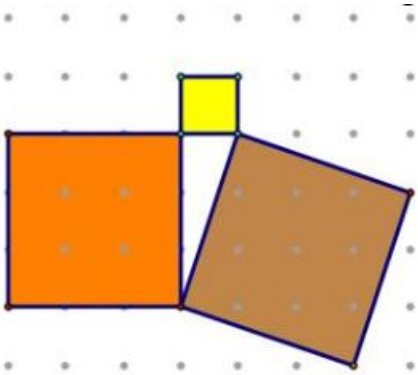
A = _____

c. 

A = _____

4. Find the unknown areas of all squares for each diagram.

a.

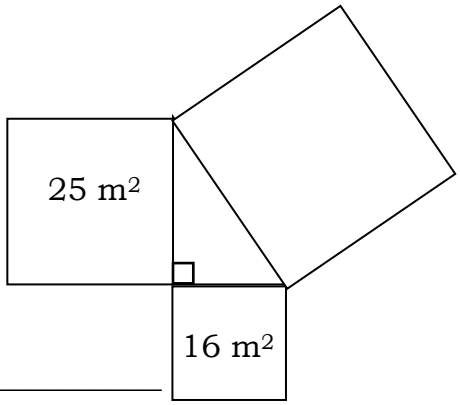


A_{small} = _____

A_{medium} = _____

A_{big} = _____

b.

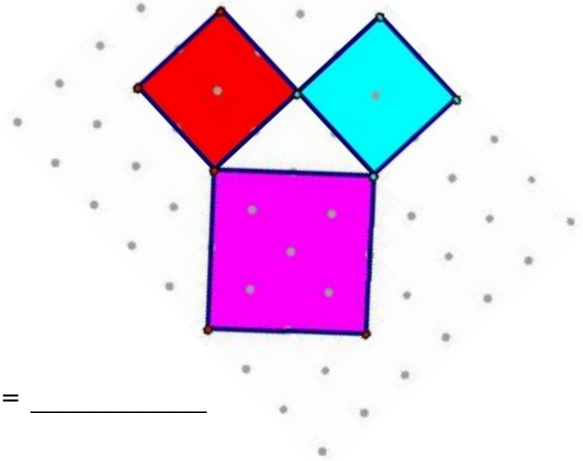


A_{small} = _____

A_{medium} = _____

A_{big} = _____

c.

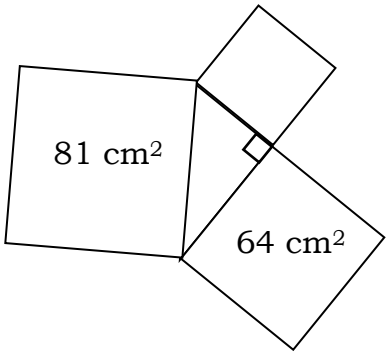


A_{small} = _____

A_{medium} = _____

A_{big} = _____

d.



A_{small} = _____

A_{medium} = _____

A_{big} = _____

In <u>Your</u> Real World:

iPad Pro 12.9-inch
128GB Wi-Fi -...

Electric screen sizes are determined by the diagonal of the screen. With a family member, measure the dimensions of an electric device with a screen and calculate the diagonal. What 'size' device do you have? What is it?