

# Step-by-Step

Name: \_\_\_\_\_ Date: \_\_\_\_\_

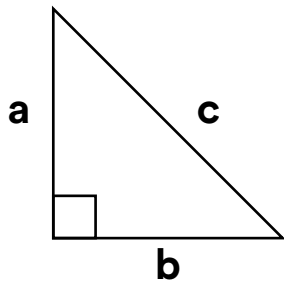
Class: **Geometry** Teacher: \_\_\_\_\_

When solving a math problem, it helps to do the work in steps. Use this chart to map out the steps.

1. Write any important math formulas or notes in the box to the left.
2. In the top right box, write your problem.
3. Complete the problem, one step at a time. Put only one step in each box.
4. Write your solution in the bottom right box.

## Important Math Formulas and Notes:

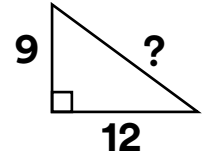
### Pythagorean theorem



$$a^2 + b^2 = c^2$$

## Your Problem:

Find the length of the missing side in the triangle:



## Step One:

$$a = 9, b = 12, c = ?$$

## Step Two:

$$a^2 + b^2 = c^2$$
$$9^2 + 12^2 = c^2$$

## Step Three:

$$81 + 144 = c^2$$

## Step Four:

$$225 = c^2$$

## Step Five:

$$\sqrt{225} = \sqrt{c^2}$$

## Your Solution:

$$15 = c$$

# Step-by-Step

Name: \_\_\_\_\_ Date: \_\_\_\_\_

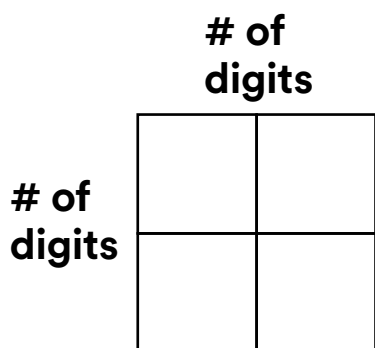
Class: Math Teacher: \_\_\_\_\_

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## Important Math Formulas and Notes:

### Box / Area Multiplication

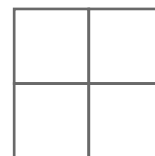


## Your Problem:

$$42 \times 28 = ?$$

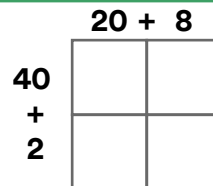
### Step One:

Set up the box  
(2 digit #  $\times$  2 digit #)



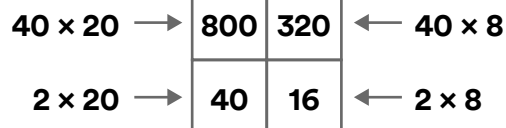
### Step Two:

Set up the box  
(2 digit #  $\times$  2 digit #)



### Step Three:

Multiply each row  
by each column



### Step Four:

$$\begin{array}{r} 800 \\ + 320 \\ + 40 \\ + 16 \\ \hline 1176 \end{array}$$

### Step Five:

## Your Solution:

$$42 \times 28 = 1176$$

# Step-by-Step

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Class: \_\_\_\_\_ Teacher: \_\_\_\_\_

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Important Math Formulas and Notes:

Your Problem:

Step One:

Step Two:

Step Three:

Step Four:

Step Five:

Your Solution: