**GUIDED NOTES/POWERPOINT**

1. A \_\_\_\_\_\_\_ triangle is a triangle with \_\_\_\_\_\_ 90 degree angle. The two sides of the triangle are called the \_\_\_\_\_\_\_\_ and the side opposite the right angle is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(slant side).
2. The formula for the \_\_\_\_\_\_\_\_\_\_\_Theorem is a² +\_\_\_\_=c². This means the\_\_\_\_ of the squares of the 2 legs will equal the hypotenuse (3rd side).
3. If a=12 and b=16 c=\_\_\_\_\_\_\_
4. If a=5 and b=7 find C. Draw the right triangle. Label the sides and solve for the missing length.
5. Does the Pythagorean theorem work for any other type of triangle?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. If C=5 and B=4 what is A?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Label the 2 legs. Label the hypotenuse. Explain how to use the Pythagorean Theorem to solve for the missing side. A=6 B=8 C=?

**REFLECTION:**

Name 3 ways that the Pythagorean Theorem could be used in everyday life. Research with your tablet.

**LINKS:**

<https://www.brainingcamp.com/content/pythagorean-theorem/lesson.php>

Step 1: Visit the link above

Step 2: Click on Lesson to open up a slide show. You can click the ‘next button’ (bottom right hand corner)

Step 3: Click PROBLEMS and fill your answers below**. MUST SHOW YOUR WORK:**

1. Soccer question:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Mountain bike questions:\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Baseball:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Skateboard:\_\_\_\_\_\_\_\_\_\_\_
5. Telephone pole:\_\_\_\_\_\_\_\_\_

<http://www.math-play.com/Pythagorean-Theorem-Jeopardy/Pythagorean-Theorem-Jeopardy.html>

Step 4: Visit the website above.

Step 5: Choose a character (multiple players)

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| **PLAYER 1** | **PLAYER 2** |

Step 6: Record your work for the questions below: