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| Date | Topic/Objective: Right Triangles | |  |
| Essential Question: What relationship exists between the length of the hypotenuse and the length of the legs? | | | |
|  | | **Quick Write:**  What relationship exists between the length of the hypotenuse and the length of the legs?    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  In a \_\_\_\_\_\_\_\_\_\_\_ triangle, the \_\_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (the side opposite to the right angle) is equal to the \_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_\_\_ of the other two sides.        You try!      A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a set of positive integers, a, b, and c that satisfy the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.    Hypothesize if multiples of Pythagorean triples are still Pythagorean Triples.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  If the \_\_\_\_\_\_\_\_\_\_\_\_\_ of one side of a triangle is equal to the \_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_\_ of the other two sides, then the triangles is a \_\_\_\_\_\_\_\_\_\_ triangle.      You try!    Using the Pythagorean Theorem, how can you tell if the triangle is acute or obtuse?  If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the triangle is a \_\_\_\_\_\_\_\_\_ triangle.  If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the triangle is an \_\_\_\_\_\_\_\_\_ triangle.  If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the triangle is an \_\_\_\_\_\_\_\_\_\_ triangle.  Let’s Practice  Classify the triangle by the angle degree; right, acute, or obtuse.  4, 5, 7  9, 10, 12  12, 16, 20 | |
| Summary: | | | |