Pythagorean Theorem

 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Block\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_

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| 8.10 The student will a) verify the Pythagorean Theorem, using diagrams, concrete materials, and measurement; and b) apply the Pythagorean Theorem to find the missing length of a side of a right triangle when given the lengths of the other two sides. |

Equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example 1:

 a =\_\_\_\_\_ Equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 b =\_\_\_\_\_

 20

 10 c = \_\_\_\_\_

 x

Example 2:

 a =\_\_\_\_\_ Equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 b =\_\_\_\_\_

 ? c = \_\_\_\_\_

 6

 15

Example 3:

 47 a =\_\_\_\_\_ Equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 b =\_\_\_\_\_

 x

 54 c = \_\_\_\_\_

Example 4:

 a =\_\_\_\_\_ Equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 27

 b =\_\_\_\_\_

 c = \_\_\_\_\_

 71