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