Name _____   Date _____

Proof of the Pythagorean Theorem and its Converse - Matching Worksheet

Write the letter of the answer that matches the problem.

____ 1. A triangle has sides with lengths of 21 miles, 28 miles, and 35 miles. Is it a right triangle?

a.
  12

____ 2. Calculate the height of a triangle with sides at lengths of 15 feet, 39 feet.

b.
  63.71

____ 3. State "true" if triangle is a right triangle that has sides with lengths of 24 kilometers, 45 kilometers, and 51 kilometers.

c.
  36

____ 4. A triangle has sides with lengths of 28 m, 32 m. Calculate the length of the hypotenuse.

d.
  Yes

____ 5. Lucky gave a blanket to Ron that measured 6 feet long and has a diagonal measurement of 64 feet. Find the blanket's width.

e.
  True

____ 6. Honey and Money are twin brothers. Mother wants to equally divide a rectangular shaped cake of 5cm wide and 6 cm long. Find the length of the third side of the cake, if it were cut diagonally.

f.
  42.5

____ 7. Andrew has map of a hidden treasure. He travels 5 meters 90˚ north, then he moves 13 meters 45˚ east where treasure is hidden. Find the distance between Andrew's initial location to the hidden treasure.

g.
  7.82