

Name _____

Date _____

Pythagorean Theorem Word Problems- Matching Worksheet

Write the letter of the answer that matches the problem.

- _____ 1. Daniel rides his bicycle 21 km west and then 18 km north. How far is he from his starting point? a. 11.7 cm
- _____ 2. A square is put together by two triangles. The hypotenuse is 11 cm and width of 8 cm. Find the height of the triangle. b. 20.6 cm
- _____ 3. Find the hypotenuse of a triangle that has a 13 cm leg and a height of 7 cm. c. 7.55 cm
- _____ 4. In a right-triangle shaped house, the roof is 51 feet long and the base of the house is 29 feet across. Calculate the height of the house. d. 13.1 feet
- _____ 5. John is trying to determine the length of the staircase he will need for a deck that is 12 feet high. He wants to start the stairs 21 feet from the deck. e. 42 feet
- _____ 6. A triangle shaped paper's height is 18 cm and width is 10 cm. Find the hypotenuse of the paper. f. 27.7 km
- _____ 7. Find the hypotenuse of a triangle that has an 8 cm width and a height of 12 cm. g. 24.2 feet
- _____ 8. The bottom of a ladder must be placed 5 feet from a building. The ladder is 14 feet long. How far above the ground does the ladder touch the wall? h. 14.4 cm
- _____ 9. Find the width of a triangle that has a 15 cm height and a hypotenuse of 19 cm. i. 14.8 cm