

Name: _____

Pythagorean Theorem Word Problems

- 1) The foot of a ladder is placed 6 feet from a wall. If the top of the ladder rests 8 feet up on the wall, how long is the ladder?
- 2) Donna's TV screen is 20 inches long. If the diagonal measures 25 inches, how long is the width of Donna's TV?
- 3) Town A is 9 miles ^{North of} ~~from~~ town B, and 12 miles ^{East of} ~~from~~ town C. A road connects towns B and C directly. Find the length of this road.
- 4) An oak tree is 8 meters tall and a bird is standing on the ground 6 meters from the tree. If the bird flies directly to the top of the tree, how far will it fly?
- 5) Victor measured the floor of his storage unit, which is rectangular. It is 8 feet wide and 17 feet from one corner to opposite corner. How long is the storage unit?
- 6) A windowpane is 5 inches by 12 inches. What is the distance between opposite corners of the windowpane?
- 7) Wade is attending a school orchestra concert. He sees his math teacher seated 8 feet ahead of him and his science teacher seated 15 feet to his right. How far apart are the two teachers?
- 8) After school, Christian skateboards directly from school to an ice cream parlor and then from the ice cream parlor to a candy store. The ice cream parlor is 3 miles south of the school and the candy store is 4 miles east of the ice cream parlor. What is the straight-line distance between the school and the candy store?
- 9) Crystal is building a slide for her kids. The ladder ^{stands vertically and} is 6 feet tall and the slide is 10 feet long. What is the distance between the ladder and the bottom of the slide?
- 10) A slide is 10 feet long and 8 feet high. How long is its base, from the bottom of the ladder to the end of the slide?