

Name _____

Date _____

Unknown Side Lengths in Right Triangle - Independent Practice Worksheet

Complete all the problems. Make sure to draw pictures to help you solve the problems.

1. The President is hoisting the flag, but the line has gotten stuck. Agent Hardy wants to fix it. He used a 15m ladder and placed it 9m away from base of flag pole. Find the height of flag.
2. Tom has a bird named Jerry. Jerry was sitting 5 feet away from the base of a tree. He sees another bird on a branch of tree 12 feet away. Find the exact distance between Jerry and the other bird.
3. Alaska is 3,186 miles from California and 2,774 miles from Florida. Assuming the roads between the three States made a right triangle, find the distance from California to Florida.
4. Jack has to paint the wall of his bedroom so he used a ladder. He placed the ladder 10 feet from a wall. The ladder reaches 13 feet up on the wall. Find out how long is the ladder.
5. Fred bought an LCD TV 12 inches long. The diagonal of the LCD TV measures 20 inches. Find the width of the LCD TV.
6. We have a 90° triangle that measures 7 cm from A to B and 11 cm from A to C. Find the length of hypotenuse BC.
7. We have triangle ABC. In triangle ABC, A to B is 10 meter and B to C is 15 meter. Find the value of AC.
8. A 50 meter tall tree casts a shadow that is 60 meters long. Find the distance between the top of the tree and the shadow.
9. George has a rectangular cloth of 3 inches x 4 inches which he has to divide in two equal halves. Find the length he should cut the cloth so that it can be divided equally.
10. In triangle OPQ, OQ is 17 meters, PQ is 15 meters, Find OP.

