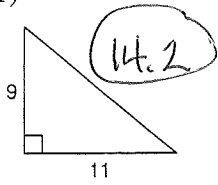


Pythagorean Theorem Practice 1.2

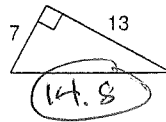
© 2014 Kuta Software LLC. All rights reserved.

Find each missing length to the nearest tenth.

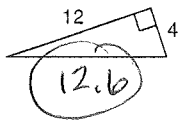
1)



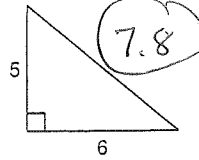
2)



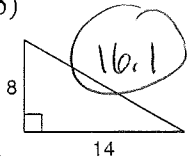
3)



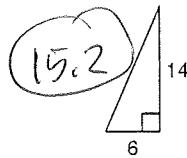
4)



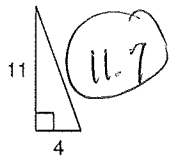
5)



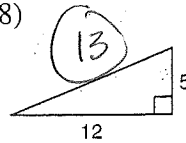
6)



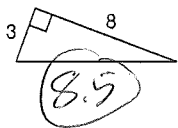
7)



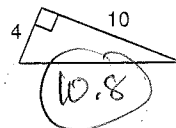
8)



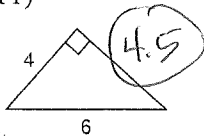
9)



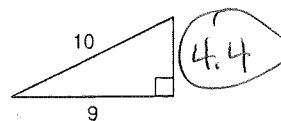
10)



11)



12)

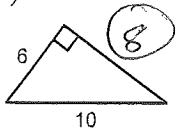


## Pythagorean Theorem Word Problems

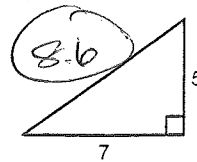
© 2011 Kuta Software LLC. All rights reserved.

Find each missing length to the nearest tenth.

1)



2)



3)  $a = 2, b = ?, c = 3$

$$b = 2.2$$

4)  $a = 10, b = 12, c = ?$

$$c = 15.6$$

- 5) The bottom of a ladder must be placed 3 feet from a wall. The ladder is 12 feet long. How far above the ground does the ladder touch the wall?

$\sim 11.6$  feet

- 6) A soccer field is a rectangle 90 meters wide and 120 meters long. The coach asks players to run from one corner to the corner diagonally across. What is the distance?

150 m

- 7) How far from the base of the house do you need to place a 15-foot ladder so that it exactly reaches the top of a 12-foot tall wall?

9 feet

- 8) The area of a square is 81 square centimeters. Find the length of a side. Find the length of the diagonal. (draw a picture to help you). side = ? diagonal = ?

12.7 cm

- 9) George rides his bike 9 km south and then 12 km east. How far is he from his starting point?

15 km

- 10) Find the length of a rectangle that has a diagonal of 25 feet and a width of 15 feet.

20 ft