8th Grade Common Core

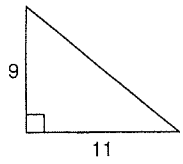
Name_____

Pythagorean Theorem Practice 1.2

Date_____ Period____

Find each missing length to the nearest tenth.

1)



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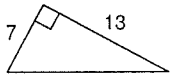

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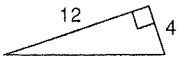

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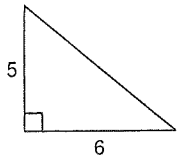

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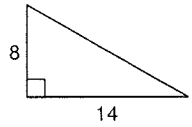

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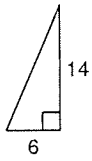

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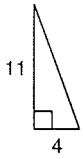

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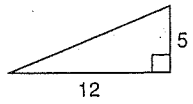

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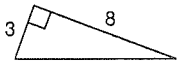

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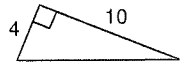

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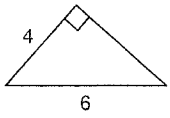

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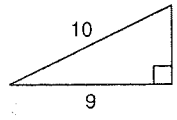


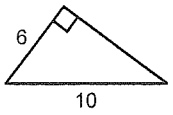
Pre-Algebra Name_____

Pythagorean Theorem Word Problems

Date_____ Period____

Find each missing length to the nearest tenth.

1)



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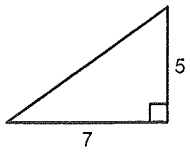

3) $a = 2,\ b = ?,\ c = 3$

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

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?

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?

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?

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 = ?

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

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