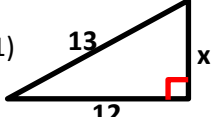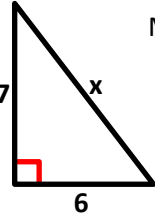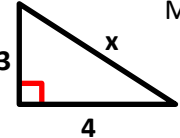Name: _____

Pythagorean Theorem Practice Worksheet

First, estimate what the length of the third side will be. Then use the Pythagorean Theorem to find the length of the missing side. Round your answers to the nearest tenth if necessary. Write your answers as "$x =$ ___" or "$x \approx$ ___".
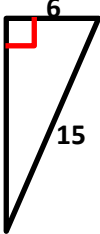
1) 13 x 12
My Estimate: _____
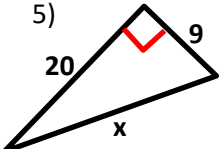Answer: _____

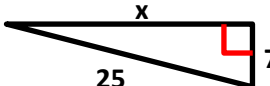2) My Estimate: _____
7 x 6
Answer: _____

3) My Estimate: _____
3 x 4
Answer: _____

4) 6 My Estimate: _____
x 15
Answer: _____

5) 9 My Estimate: _____
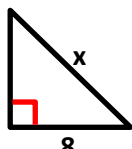20 x
Answer: _____

6) x 7 25
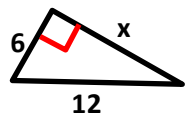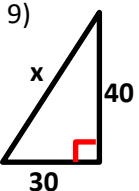My Estimate: _____
Answer: _____

7) My Estimate: _____
8 x 8
Answer: _____

8) 6 x 12
My Estimate: _____
Answer: _____

9) My Estimate: _____
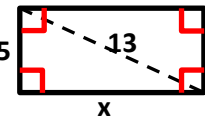x 40 30
Answer: _____
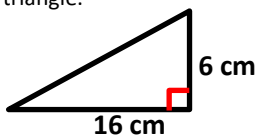
10) x 7.2 9.6 My Estimate: _____
Answer: _____

11) Find the side length.
5 13 x
My Estimate: _____
Answer: _____

12) Will a triangle with side lengths 8, 10, and 12 be a right triangle? Show your work using the Pythagorean Theorem.

13) The area of a triangle is $A = \frac{b \cdot h}{2}$. Find the area of this right triangle.
6 cm 16 cm

14) In this triangle, the base is known, but the height is unknown. First, find the height, then use it to find the area.
5 in 3 in