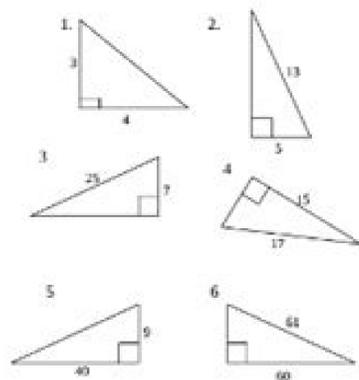


I'm not robot!

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1. Use Pythagorean Theorem to find the missing dimension of each right triangle. Then complete the chart.



	Short Leg	Long Leg	Hypotenuse
1.			
2.			
3.			
4.			
5.			
6.			

Given the triples above that you put in the table, use the factors in the table below to compute additional triples. (Use the chart above, and fill in the chart below.)

	Triple	Factor	New Triple	Factor	New Triple
7.		2		10	
8.		2		10	
9.		2		10	
10.		2		10	
11.		2		10	
12.		2		10	
13.	6, 8, 10	2		10	
14.	3, 4, 5	3		5	
15.	$3\sqrt{7}, 4\sqrt{7}, 5\sqrt{7}$	2		10	

Looking at #15 above, if all three numbers of a triple have the same radical ( $\sqrt{7}, \sqrt{2}, \dots$ ) - would you get a similar result as you did in #15?

Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Pythagorean Theorem**

Sheet 1

Determine the missing length in each right triangle using the Pythagorean theorem. Round the answer to the nearest tenth.

1) BC = \_\_\_\_\_

2) PQ = \_\_\_\_\_

3) UW = \_\_\_\_\_

4) XZ = \_\_\_\_\_

5) EF = \_\_\_\_\_

6) JL = \_\_\_\_\_

7) MN = \_\_\_\_\_

8) ST = \_\_\_\_\_

9) CE = \_\_\_\_\_

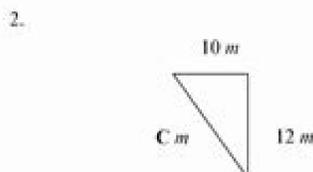
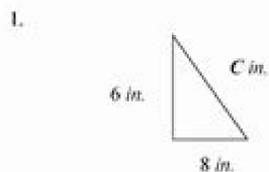
Pythagorean Triples

	a	b	c
1.	3	4	5
2.	5	12	13
3.	7	24	25
4.	8	15	17
5.	9	40	41
6.	11	60	61
7.	12	35	37
8.	13	84	85
9.	16	63	65
10.	20	99	101
11.	28	21	35
12.	33	56	65
13.	35	12	37
14.	39	80	85
15.	48	65	85

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ PER# \_\_\_\_\_

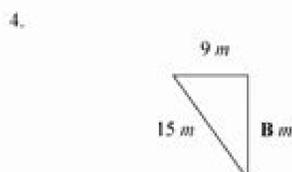
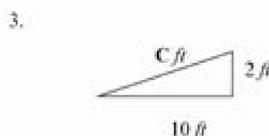
**PYTHAGOREAN THEOREM WORKSHEET**

Calculate the missing length. Round your answers to the nearest thousandth if necessary.



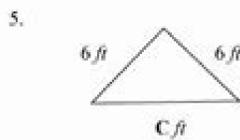
ANSWER: \_\_\_\_\_

ANSWER: \_\_\_\_\_



ANSWER: \_\_\_\_\_

ANSWER: \_\_\_\_\_



6. The length of one leg of a right triangle is 8 inches. The other leg is 14 inches. How long is the hypotenuse?

ANSWER: \_\_\_\_\_

7. The length of the hypotenuse of a right triangle is 16 meters. The length of one of the legs is 12 meters. How long is the other leg?

ANSWER: \_\_\_\_\_

ANSWER: \_\_\_\_\_

8. Given three lines with the following lengths, can they form a right triangle? 9 ft, 12 ft, 18 ft  
(Hint: the equation  $a^2 + b^2 = c^2$  is only true for right triangles)

ANSWER: \_\_\_\_\_



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