

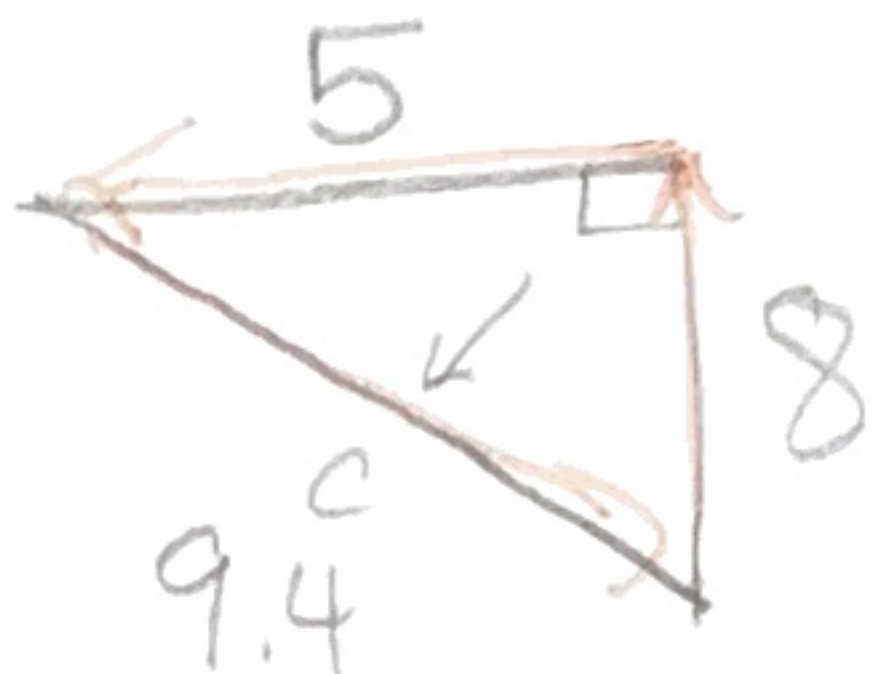
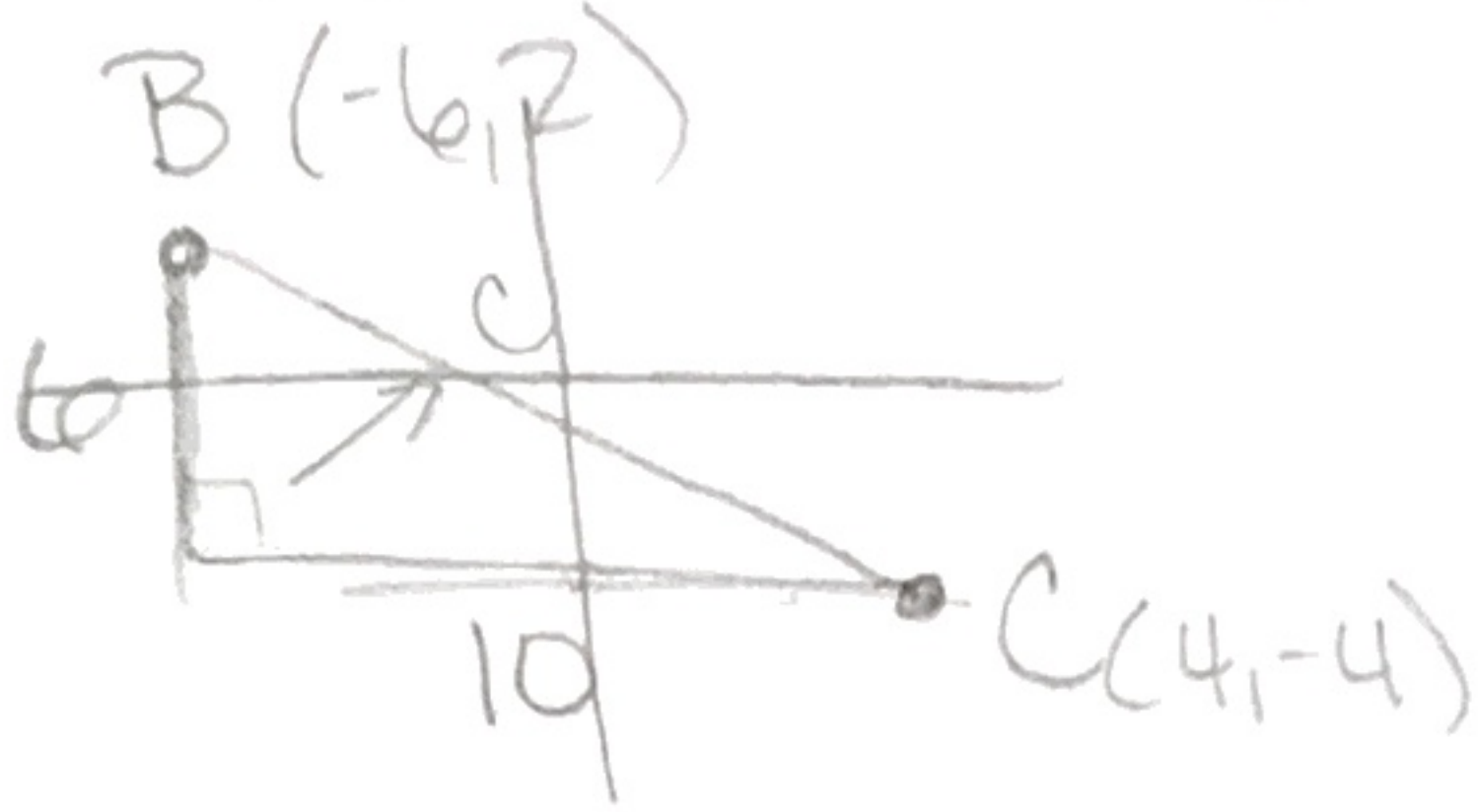
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Hour: \_\_\_\_\_

**Unit 4A: Day 13: Practice Day---QUIZ tomorrow**

Focus Question: How do I know when to use the Pythagorean Theorem to help me solve a problem?


For today's letter scramble, using the Pythagorean theorem may only be a part of the problem. Make sure you read and answer the question that is being asked.

Directions: Show work, write your final answer, and the letter associated with that answer. Once you have done all the problems, unscramble the letters to spell a word/phrase associated with right triangles.

#	Triangle and Work	Final Answer	Letter
1	<p>8 North 5 West Diag. Back How far altogether?</p>  <p><math>5^2 + 8^2 = c^2</math>  <math>25 + 64 = c^2</math>  <math>\sqrt{89} = c</math>  <math>c = \sqrt{89}</math>  <math>8 + 5 + 9.4 = 22.4</math></p>		A
2	<p>length of Bc            B(-6, 2)            C(4, -4)</p>  <p><math>6^2 + 10^2 = c^2</math>  <math>36 + 100 = c^2</math>  <math>\sqrt{136} = c</math>  <math>\sqrt{136} = c</math>  <math>11.7 \approx c</math></p>		T
3			
4	<p>48 yd diag.            length 40            width 30            Rectangle?</p> <p><math>a^2 + b^2 = c^2</math>  <math>30^2 + 40^2 = 48^2</math>  <math>900 + 1600 = 2304</math>  <math>2500 \neq 2304</math></p>	No	O
5			



6 John 6 North & 8 West = 14  
 Michael diag. across  
 How much shorter was Michael's?



$6^2 + 8^2 = M^2$   
 $36 + 64 = M^2$   
 $\sqrt{100} = \sqrt{M^2}$   
 $10 = M$   
 walked

$14 - 10 = 4$

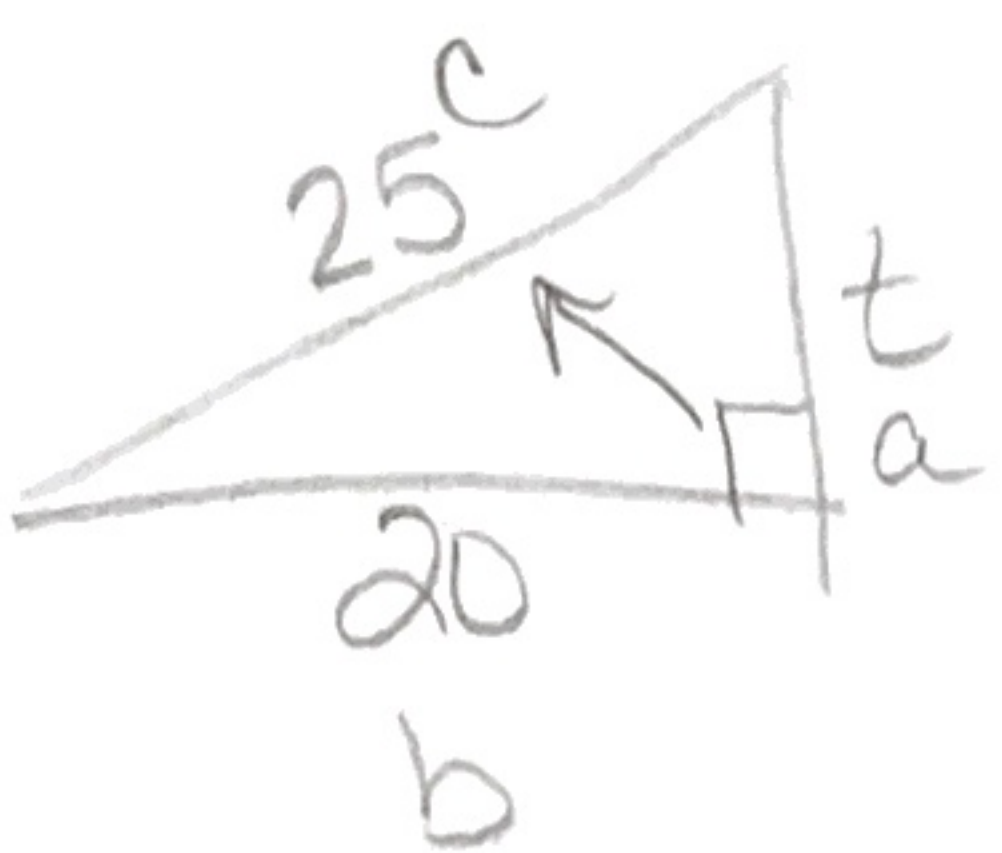
G

7

8

9

10 20 long.  
 25 diag.  
 tall?



$t^2 + 20^2 = 25^2$   
 $t^2 + 400 = 625$   
 $-400 \quad -400$   
 $\sqrt{t^2} = \sqrt{225}$   
 $t = 15$

S

S G O T A