	Key	Date:	Period:	
	4.5 Systems of Linear Equations Problem Solving DAY ONE CYU			

 \square Use when you get it right all by yourself

 ${m S}$ Use when you did it all by yourself, but made a silly mistake

HUse when you could do it alone with a little help from teacher or peer

 ${m G}$ Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Reading carefully and checking what makes sense	1, 2		N.
Determining variables		3, 4	
Writing equations		3, 4	8
Solving systems		3, 4	
Writing answers in terms of the problem		3, 4	
Checking answers to systems	5, 6	3, 4	

Without actually solving each problem, choose each correct solution by deciding which choice satisfies the given conditions.

1. The length of a rectangle is 3 feet longer than the width. The perimeter is 30 feet. Find the dimensions of the rectangle.

A. length 8 ft, width 5 ft

B. length 8 ft, width 7 ft

C. Jength 9 ft, width 6 ft

2. An isosceles triangle, a triangle with at least two sides of equal length, has a perimeter of 20 inches. Each of the equal sides is one inch longer than the third side. Find the lengths of the three sides.

A. 6 in, 6 in, 7 in

(B.)7 in, 7 in, 6 in

C. 6 in, 7 in, 8 in

Determine the variables, write the equations, solve the problem, and write your answer in a complete sentence in terms of the problem. Finally, show that your checked your answer.

3. Two numbers total 83 and have a difference of 17. Find the two numbers **Variables**

Equations

Solve

Check

solution The 1st # is 33 and the second # is 50.

4. The sum of two numbers is 76 and their difference is 52. Find the two numbers.

Variables

Equations

Solve

Check

Solution The 1st # is 64 & 2nd # is 12.

Check the following ordered triples in the systems of three variables to determine if the answer is a solution or not. Show all work for full credit.

$$x - y + z = -4$$

5. $3x + 2y - z = 5$; (-1, 5, 2)

5.
$$3x + 2y - z = 5$$
 ; (-1, 5, 2)
 $-2x + 3y - z = 15$

$$x + y - z = -1$$

6. $-4x - y + 2z = -7$; (3, 3, 1)
 $2x - 2y - 5z = 7$

no

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yours elf.

