<b>4</b> E	E Systems of Equation WORD	Name:	P	er:
SH	OW YOUR WORK FOR FULL CREDIT. NO WOR	K, NO CREDIT. NO WOR	K IN PEN.	
For each of the situation, write two equations and solve the system any method to find the price each item.				
Clarita and Carlos run a pet sitting company. Clarita is upset with Carlos because he has been buying cat and dog food without recording the price of each type of food in their records. Instead, Carlos has just recorded the total price of each purchase. Carlos is trying to figure out the price of each type of food by reviewing some recent purchases. Help him figure out the cost of items. They subtracted the tax for the problems below.				
1.	One week Carlos bought 5 bags of Tiny Tihe bought 5 bags of Tiny Tidbits and 6 bag			e next week
2.	Another time Carlos bought 2 bags of Brutu bought 5 bags of Brutus Bites and 6 bags of		· ·	next week he
3.	Carlos purchased 6 dog leashes and 6 cat be Later in the summer he purchased 3 addition			the pets.
4.	One week he tried out a cheaper brand of ca food and 5 small bags of dog food for \$22.7 more small bags of dog food, which cost his	75. On Wednesday, he		
5.	One week Carlos bought 2 packages of dog didn't like the cat treats, Carlos returned 3 u dog bones. After being refunded for the cat	unopened packages of c	at treats and bought 2 more p	packages of

Solve the following systems of equations by any method. Remember, you can CHECK YOUR ANSWERS.

6. 
$$y = -1 - x$$

$$5x + y = -13$$

8. 
$$y = 5x - 7$$

$$-3x - 2y = -12$$

10. 
$$7x + 2y = 24$$

$$4x + y = 15$$

Solution: \_\_\_\_\_

Solution: \_\_\_\_\_

Solution: \_\_\_\_\_

7. 
$$4x = 12 - 4y$$
  
 $-x = -3 + y$ 

9. 
$$2x + y = 20$$
  
 $6x - 5y = 12$ 

$$11. 8x + y = -16$$
$$9x - 3y = 15$$

Solution: \_\_\_\_\_

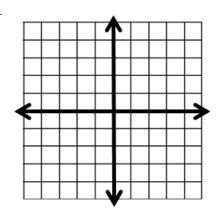
Solution: \_\_\_\_\_

Solution: \_\_\_\_\_

Solve the following systems of equations by graphing and estimate the solution.

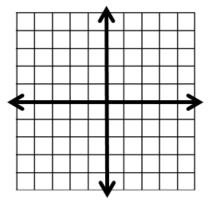
$$12. \ y = -\frac{1}{2}x - 1$$

$$y = \frac{1}{4}x^2 - 4$$



13. 
$$y = 3x - 4$$

$$2y = 6x + 6$$



Solution:

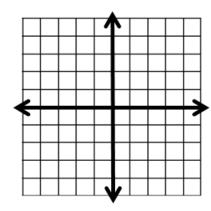
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Solution:

\_\_\_\_\_

Solve the following systems of inequalities  ${f by}$  graphing and circle the solution set.

14. 
$$y \le \frac{1}{2}x + 1$$
  
  $y > -2x - 2$ 



15. 
$$y \ge -x - 1$$

