

**4.3 Practice A**

Solve the system of linear equations by elimination. Check your solution.

1.  $x - y = 4$   
 $x + y = 2$
  2.  $x + 3y = 5$   
 $2x - 3y = 1$
  3.  $4x - y = 7$   
 $4x - 2y = 2$
4. You purchase 5 pounds of apples and 2 pounds of oranges for \$9. Your friend purchases 5 pounds of apples and 6 pounds of oranges for \$17.
- a. Write a system of linear equations that represents this situation.
  - b. What is the price per pound for apples?
  - c. What is the price per pound for oranges?

Solve the system of linear equations by elimination. Check your solution.

5.  $2x + 3y = -2$   
 $3x - y = -14$
  6.  $x - 3y = 1$   
 $4x + 5y = 4$
  7.  $3x - 5y = 9$   
 $6x - 6y = 6$
8. A 100-point test contains a total of 20 questions. The multiple choice questions are worth 3 points each and the short response questions are worth 8 points each.
- a. Write a system of linear equations that represents this situation.
  - b. How many multiple choice questions are on the test?
  - c. How many short response questions are on the test?
  - d. If the teacher changed the test to 15 questions, then how many of each type of question would be on the test?
9. One customer purchases 8 bags of cat food and 2 bags of dog food. The total weight of the purchase is 44 pounds. Another customer purchases 5 bags of cat food and 2 bags of dog food. The total weight of the purchase is 35 pounds.
- a. You write the following system of linear equations to represent this situation. Is your answer correct?  
$$8x + 2y = 44$$
$$5x + 2y = 35$$
  - b. Your answer for the next step is  $13x = 79$ , which is incorrect. Explain the error.

# Solutions Practice Unit Lesson Homework

**Jin-Ying Zhang**



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