

Day 6 – Solving Systems Using Elimination

Name: _____

Practice Assignment

Date: _____ Block: _____

Directions: Solve by elimination.

1.
$$\begin{aligned} 4x - 7y &= 1 \\ -5x + 9y &= -1 \end{aligned}$$

2.
$$\begin{aligned} -3x - 5y &= -4 \\ 4x + 9y &= -4 \end{aligned}$$

3.
$$\begin{aligned} -3x + 3y &= 1 \\ -2x + 2y &= -4 \end{aligned}$$

4.
$$\begin{aligned} -7x - 5y &= -19 \\ 4x - 2y &= -28 \end{aligned}$$

5.
$$\begin{aligned} -7x + 6y &= -6 \\ 2x - 8y &= 8 \end{aligned}$$

6.
$$\begin{aligned} 12x + 6y &= 6 \\ 8x + 4y &= 4 \end{aligned}$$

7. Tickets to the home basketball game are \$1.50 for student tickets and non-student tickets are \$3.25 and \$752.25 was made. There were 358 tickets sold. This system can be modeled by $\begin{cases} x + y = 358 \\ 1.50x + 3.25y = 752.25 \end{cases}$.

How many student and non-student tickets were sold?

8. A family member has some five dollar bills and one dollar bills in her wallet. Altogether, she has 53 bills and a total of \$237. How many of each bill does she have?

a. Create a system of equations:

b. Solve your system of equations to determine how many of each bill she has.

9. A language arts test is worth 100 points. There is a total of 26 questions. There are spelling word questions worth 2 points each and vocabulary word questions worth 5 points each. How many of each type of question are there?

a. Create a system of equations:

b. Solve your system of equations to determine how many of each type of question there is.