

Name _____

Date _____ Pd. _____

Notes: Elimination using Addition and Subtraction Day 4**Use subtraction to solve the system of equations.**

$$2x - 3y = 11$$

$$5x - 3y = 14$$

NOTES**An Alternative Method: Using Addition Rather Than Subtraction**

Subtracting integers, particularly in a vertical format, is often a source of errors for students. To avoid these errors when solving a system of equations where the coefficients of one of the variables are equal, students may multiply one of the equations by -1 and then combine the equations by adding.

$$\begin{cases} 5s + 2t = 6 \\ 9s + 2t = 22 \end{cases}$$

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Exit Card: Elimination using Addition and Subtraction Day 4

Terry is going to the county fair. She has two choices for purchasing tickets, as shown in the table below.

Ticket Choices	Admission Price	Cost per Ride
A	\$6	\$0.50
B	\$2	\$0.75

Complete the following

- Write an equation for Terry's total cost (y) for ticket Choice A. Write an equation for Terry's total cost (y) for ticket Choice B. Let x represent the number of rides she plans to go on.
- How many rides would Terry have to go on for the total cost of ticket A and ticket B to be equal? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation. (If you choose to draw a graph, use the grid provided to add to your written response.)
- Terry plans to go on 14 rides. To spend the least amount of money, which ticket choice should Terry choose? Use mathematics to justify your answer.

