

Name: _____ Teacher: _____ School: _____

Grade 8: Lesson 14 Solving Systems of Linear Equations – Elimination

Complete the following exercises. You may use a calculator as needed.

$\begin{aligned} 2x - 2y &= -4 \\ 4x + 2y &= 22 \end{aligned}$ $x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}}$	$\begin{aligned} x - 3.1y &= 11.5 \\ -x + 3.5y &= -13.5 \end{aligned}$ $x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}}$
$\begin{aligned} 2x + 3y &= 14 \\ 6x - 3y &= 6 \end{aligned}$ $x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}}$	$\begin{aligned} x + y &= 20 \\ x + 5y &= 68 \end{aligned}$ $x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}}$
<p><i>Nikki has a total of 25 coins that are nickels and pennies. The value of the coins is 73 cents. How many nickels and pennies are there?</i></p> <p><i>Let x equal the number of nickels. Let y equal the number of pennies.</i></p> <p><i>Fill in the blanks:</i></p> <div style="margin-left: 150px;">$x + y = \underline{\hspace{2cm}}$</div> <div style="margin-left: 100px;">$\underline{\hspace{2cm}}x + y = \underline{\hspace{2cm}}$</div> <p><i>Now, solve the system.</i></p> <div style="margin-left: 20px;">x (the number of nickels) = $\underline{\hspace{2cm}}$</div> <div style="margin-left: 20px;">y (the number of pennies) = $\underline{\hspace{2cm}}$</div>	

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