NAME			······
Module 10			additional
Lesson 2	and Inequalities Solving Systems of Linear Equations		
	by Elimination		practice
Solve each sy	stem of equation	ons using the elimination method.	
1. $\begin{cases} x + y = 15 \\ 3x - y = 1 \end{cases}$		2. $\begin{cases} x + y = 0 \\ x - y = 18 \end{cases}$	3. $\begin{cases} x - 2y = 7 \\ 2x + 2y = 11 \end{cases}$ (6, $-\frac{1}{2}$)
(1		(2x + 2y = 11)
(4, 11)		(9, –9)	<u> </u> , <u>-</u> 2
4. ∫ 5x − 4y	= 13	5. $\begin{cases} 8x + 2y = -17 \\ 16x + 4y = 1 \end{cases}$	6. $\int 11x - y = 14$
4. $\begin{cases} 5x - 4y \\ 3x + 4y \end{cases}$	= 19	16x + 4y = 1	6. $\begin{cases} 11x - y = 14 \\ 2x + y = -1 \end{cases}$
$(4, 1\frac{3}{4})$		No solution	<u>(1, -3)</u>
7. $\begin{cases} 3a + 5b \\ 4a - 3b \end{cases}$	= 11	8. $\begin{cases} 5x = 7y - 8 \\ 10x = 14y + 16 \end{cases}$	9. $(12x - 8y = -3)$
(4a − 3b	= 5	10x = 14y + 16	9. $\begin{cases} 12x - 8y = -3\\ 10x - 4y = 2 \end{cases}$
(2, 1)		An infinite number of solu	utions (7, 27) 8, 16

Write a system of equations and solve by using the elimination method.

10. The sum of two numbers is 53. The first number is five more than twice the second. Find the two numbers.

37 and 16

12. The senior class sold 173 tickets to the Christmas play. Adult tickets cost \$6.25, and children's tickets cost \$3.75. If the senior class earned \$858.75, how many of each kind of ticket was sold?

84 adult tickets; 89 children's tickets

14. Jon is three years older than his brother Jim. Five years from now, Jon will be eleven more than half his brothers' age. How old is each now?

Jon is 14; Jim is 11

11. The sum of two consecutive odd integers is 32. The first minus the second is negative two. Find the integers.

15 and 17

13. Tom worked a total of 23 hours last week, part at the local convenience store and the rest at the grocery store. He gets paid \$5.25 per hour at the grocery store and \$6.45 per hour at the convenience store. If his total pay for the week was \$129.15, how many hours did he work at each place?

16 hours at the grocery store; 7 hours at the convenience store

15. The perimeter of a rectangle is 30m. The length is twice the width. Find the dimensions.

5m by 10m

Module 10 Lesson 2

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