## NAME

Module 10 | Solving Systems of Linear Equations |
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| and Inequalities |

Lesson 2 Solving Systems of Linear Equations by Elimination

## $\overline{\text { DATE }}$

## additional practice

## Solve each system of equations using the elimination method.

1. $\left\{\begin{array}{l}x+y=15 \\ 3 x-y=1\end{array}\right.$
2. $\left\{\begin{array}{l}x+y=0 \\ x-y=18\end{array}\right.$
3. $x-2 y=7$
$2 x+2 y=11$
4. $\left\{\begin{array}{l}5 x-4 y=13 \\ 3 x+4 y=19\end{array}\right.$
5. $\left\{\begin{array}{l}8 x+2 y=-17 \\ 16 x+4 y=1\end{array}\right.$
6. $\left\{\begin{array}{l}11 x-y=14 \\ 2 x+y=-1\end{array}\right.$
7. $\left\{\begin{array}{l}3 a+5 b=11 \\ 4 a-3 b=5\end{array}\right.$
8. $\left\{\begin{array}{l}5 x=7 y-8 \\ 10 x=14 y+16\end{array}\right.$
9. $\left\{\begin{array}{l}12 x-8 y=-3 \\ 10 x-4 y=2\end{array}\right.$

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.
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?
14. Jon is three years older than his brother Jim. Five years from now, Jon will be eleven more
11. The sum of two consecutive odd integers is 32 . The first minus the second is negative two. Find the integers.
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?
15. The perimeter of a rectangle is 30 m . The length is twice the width. Find the dimensions.

