

Practice B

For use with pages 418–424

Choose a method to solve the linear system. Explain your choice, and then solve the system.

1. $2x - 3y = 24$

$2x + y = 8$

4. $2x + y = 5$

$x - y = 1$

2. $x - y = 4$

$x + y = 8$

5. $3x - y = 9$

$x + 2y = 10$

3. $y - 3x = 7$

$y + 2x = 2$

6. $x + y = 50$

$3x - 2y = 0$

Solve the linear system using the method of your choice.

7. $6x + 9y = 3$

$x + 4y = -2$

10. $4x - 6 = 2y$

$-3x + 2y = -3$

13. $4x - 3y = -4$

$-3x + 5y = -8$

16. $2x + 4y = -1$

$4x - 3y = -2$

8. $-x = 10$

$2x + 7y = 1$

11. $-3x + 5y = -10$

$-3x + 6y = -12$

14. $1.8x + 3y = 3$

$-2x - 2.5y = -5$

17. $6x - 3y = -5$

$x - \frac{2}{3}y = -1$

9. $-3x + y = -4$

$y = x - 6$

12. $2x + 3y = 8$

$2x - 3y = -4$

15. $x - y = 2$

$3x + y = -10$

18. $y = \frac{1}{2}x - 4$

$x = -2 + \frac{1}{3}y$

Cookout In Exercises 19 and 20, use the following information.

You are buying the meat for a cookout. You need to buy 8 packages of meat. A package of hotdogs costs \$1.89 and a package of hamburgers costs \$5.19. You spend a total of \$31.62.

19. Let x represent the number of packages of hotdogs bought and let y represent the number of packages of hamburgers bought. Write a system of equations you could solve to find the number of packages of each type of meat bought.

20. Solve the system.

21. **Baseball Glove Sales** A sporting goods store sells right-handed and left-handed baseball gloves. In one month, 12 gloves were sold for a total revenue of \$561. Right-handed gloves cost \$45 and left-handed gloves cost \$52. Find the number of each type of glove sold.

22. **Southern Cuisine** Your family goes to a Southern-style restaurant for dinner. There are 6 people in your family. Some order the chicken dinner for \$14.80 and some order the steak dinner for \$17. If the total bill was \$91, how many people ordered each dinner?

23. **Dimensions of a Rectangle** The perimeter of the rectangle is 21 inches. The perimeter of the inscribed triangle is 21 inches. Find the dimensions of the rectangle.

