

LESSON
7.4**Practice B***For use with pages 451–457***Describe the first step you would use to solve the linear system.**

1. $3x - 4y = 7$
 $5x + 8y = 10$

2. $9x + 4y = 13$
 $3x + 5y = 9$

3. $5x + 7y = -3$
 $15x + 4y = -5$

4. $7x - 4y = 6$
 $3x - 2y = -15$

5. $7x + 9y = -6$
 $-5x + 14y = 11$

6. $9x - 5y = 14$
 $-6x + 8y = 13$

Solve the linear system by using elimination.

7. $x + 3y = 1$
 $-5x + 4y = -24$

8. $-3x - y = -15$
 $8x + 4y = 48$

9. $x + 7y = -37$
 $2x - 5y = 21$

10. $8x - 4y = -76$
 $5x + 2y = -16$

11. $-3x + 10y = 23$
 $5x + 2y = 55$

12. $9x - 4y = 26$
 $18x + 7y = 22$

13. $4x - 3y = 16$
 $16x + 10y = 240$

14. $20x + 10y = 100$
 $-5x + 4y = 53$

15. $3x - 10y = -25$
 $5x - 20y = -55$

16. $-3x - 4y = 27$
 $5x - 6y = -7$

17. $2x + 7y = 2$
 $5x - 2y = 83$

18. $3x - 5y = -16$
 $2x - 3y = -8$

LESSON
7.4**Practice B** *continued*
For use with pages 451–457

- 19. Hockey Game** Two families go to a hockey game. One family purchases two adult tickets and four youth tickets for \$28. Another family purchases four adult tickets and five youth tickets for \$45.50. Let x represent the cost in dollars of one adult ticket and let y represent the cost in dollars of one youth ticket.
- Write a linear system that represents this situation.
 - Solve the linear system to find the cost of one adult and one youth ticket.
 - How much would it cost two adults and five youths to attend the game?
- 20. Travel Agency** A travel agency offers two Chicago outings. Plan A includes hotel accommodations for three nights and two pairs of baseball tickets worth a total of \$557. Plan B includes hotel accommodations for five nights and four pairs of baseball tickets worth a total of \$974. Let x represent the cost in dollars of one night's hotel accommodations and let y represent the cost in dollars of one pair of baseball tickets.
- Write a linear system you could use to find the cost of one night's hotel accommodations and the cost of one pair of baseball tickets.
 - Solve the linear system to find the cost of one night's hotel accommodations and the cost of one pair of baseball tickets.
- 21. Highway Project** There are fifteen workers employed on a highway project, some at \$180 per day and some at \$155 per day. The daily payroll is \$2400. Let x represent the number of \$180 per day workers and let y represent the number of \$155 per day workers. Write and solve a linear system to find the number of workers employed at each wage.