

LESSON  
**7.2**

Name \_\_\_\_\_ Date \_\_\_\_\_

## Practice B

For use with pages 322-325

Tell whether the statement is *true* or *false*.

- The coefficients of the expression  $8 - 5x - 4 + 3x$  are 5 and 3.
- The constants of the expression  $-4 + 11x + 9 - 8x$  are  $-4$  and 9.
- In the expression  $3x - 9 + 3 - 10x$ ,  $3x$  and 3 are like terms.
- The expressions  $15x - 9 - 4x + 2$  and  $11x - 7$  are equivalent.

Identify the coefficients, constant term(s), and like terms of the expression.

5.  $8x + 9 - 3x$

6.  $17 - 2a + 5a - 1$

7.  $7m - 7 + 6m - 6$

8.  $-10 - 15r - 22r + 8$

Match the expression with an equivalent expression.

9.  $5x - 4 - 3x + 9$

A.  $2x - 3$

10.  $5(x - 3) - 3x + 7$

B.  $2x + 5$

11.  $-5x + 6 + 7x - 9$

C.  $2x - 8$

Simplify the expression.

12.  $18n + 13 - 5n$

13.  $4x - 6 - 9x + 1$

14.  $-12a - 7 + 4a + 7$

15.  $-6 + 14r - 12r - 3$

16.  $3(5 + 4b) - 2$

17.  $6(3 - 2z) + 11z - 4$

- A nut mixture contains peanuts, walnuts, and cashews. In the mixture, the amount of peanuts is three times the amount of cashews, and the amount of walnuts is four times the amount of cashews. Let  $x$  represent the amount of cashews. Write and simplify an expression for the total amount of nuts in the mixture.
- A rectangular sheet of plywood is seven times longer than it is wide. Write and simplify an expression for the perimeter of the rectangle in terms of the width  $w$ .
- A basketball player scored 8 points during the first and second quarters of a game. During the third quarter, she scored three times as many points as she did in the fourth quarter. Let  $x$  represent the number of points the player scored in the fourth quarter. Write and simplify an expression to represent the total number of points the player scored during the entire game.