DATE PERIOD

15. 5x + (24 + 14x)

## **Lesson 7 Homework Practice**

## Equivalent Expressions

## Simplify each expression.

**13.** (*x* • 12) • 3

NAME

1. (7 + x) + 7x**2.**  $5 \cdot (4 \cdot x)$ **3.** 15y + (x + 9y)4. (6x + 21) + 145. 3x + 2 + 11x6. (x + 13y) + 8y7. (12y + 2x) + 4y8.8  $\cdot$  (x  $\cdot$  4) **9.** 3(5*x*) **10.** 3x + (7x + 10)11. 5x + (2 + x)12.  $4 \cdot x \cdot 10$ 

14. 14x + 9y + 6x

## ALGEBRA For Exercises 16 through 21, translate each verbal expression into an algebraic expression. Then, simplify the expression.

**16.** The sum of three and a number is added to twenty-four.

- **17.** The product of six and a number is multiplied by nine.
- **18.** The sum of 10 times a number and fifteen is added to eleven times the same number.
- **19.** Two sets of the sum of a number and eight are added to five times the same number.
- **20.** Three sets of a sum of a number and four are added to the sum of seven times the same number and thirteen.
- 21. Five friends went to a baseball game. Three of the friends each bought a ticket for x dollars and a soda for \$6.00. The other two friends each bought only tickets. Write and simplify an expression that represents the amount of money spent.