## IEsonN Practice C <br> 2.5 <br> For use with pages 96-101

## Use the distributive property to write an equivalent expression.

1. $5 x(x+3)$
2. $2 x(x-8)$
3. $-4 x(x+6)$
4. $(10 x-1)(-7 x)$
5. $\frac{1}{2}(8 x-1)$
6. $\frac{2}{3}(3 x+9)$
7. $-\frac{1}{4}(16-4 x)$
8. $\frac{3}{4} x(8 x+2)$
9. $\frac{2}{5} x\left(x^{2}-1\right)$

## Identify the terms, like terms, coefficients, and constant terms of the expression.

10. $-2 x^{2}+3 x+5 x-1$
11. $5 x y-3+7 x y-4$
12. $6 x^{2}-3 x+1-5 x^{2}+2$

## Simplify the expression.

13. $3(5 x-1)+7$
14. $3 x+5(x-4)$
15. $18-7(3-x)$
16. $(6-5 x)(-3)-12 x$
17. $7(x-3)-2 x$
18. $14 x-5(3-2 x)$
19. $20-(8-x)(-3)$

## Translate the verbal phrase into an expression. Then simplify the expression.

22. Twice the difference of 5 and $x$, increased by the product of 2 and $x$
23. The product of -5 and the sum of $x$ and 8 , decreased by the product of 3 and $x$
24. Quilts You are using solid colored fabric that costs $\$ .06$ per square and patterned fabric that costs $\$ .10$ per square to make a quilt. You need 660 squares to complete the quilt. Write an equation that gives the total cost $c$ as a function of the number $n$ of solid squares used. Then find the total cost if you use 200 solid colored squares.
25. Tennis Balls A local sports store is selling packs of 8 tennis balls for $25 \%$ off the regular price. You buy 3 packs of tennis balls. Write an equation that gives the total cost $t$ as a function of the regular cost $r$ of a pack of tennis balls. Then find the total cost if a pack of tennis balls regularly costs $\$ 20$.
26. Making Copies You have to copy a 500 -page document. There are 2 copiers in the office: copier A makes 13 copies in 1 minute and copier B makes 18 copies in 1 minute. Let $a$ be the number of pages you put in copier A. Round your answer to the nearest tenth.
a. Write an equation you can use to find out how long it will take to make the copy.
b. How long will it take you to make the copy if you put 200 pages in copier A? Round your answer to the nearest tenth.
c. Which will be faster, the faster copier, or using both copiers by putting 250 pages in each?

## Algebra 1

Chapter 2 Resource Book

