## IEsSON <br> Practice A

3.8

## For use with pages 184-189

## Determine whether the equation is in function form.

1. $2 x+y=8$
2. $x=3 y-4$
3. $y=1-8 x$

## Write the equation in function form

4. $y+10 x=3$
5. $y-13=4 x$
6. $8 x+y-4=0$
7. $4 x+2 y=14$
8. $3 y-9 x=27$
9. $16+2 y=18 x$
10. $15 x-5 y=20$
11. $2 x-3 y=6$
12. $24-4 y=8 x$
13. $5 x+2 y=16$
14. $-7 x-3 y=18$
15. $4 y-4 x+4=0$

## Solve the literal equation.

16. Solve $P=R-C$ for $C$.
17. Solve $F=m a$ for $m$.
18. Solve $I=\frac{E}{R}$ for $R$.
19. Solve $a x-b y=c$ for $x$.

## Solve the formula for the indicated variable.

20. Circumference of a circle: $C=2 \pi r$. Solve for $r$.
21. Volume of a pyramid: $V=\frac{B h}{3}$. Solve for $B$.
22. Perimeter of a rectangle: $P=2 \ell+2 w$. Solve for $w$.
23. Pencil Holder You are decorating a clean soup can to make a pencil holder. You are going to glue yarn around the top and bottom of the can. The total amount $y$ of yarn (in inches) you need is given by the equation $y=4 \pi r$, where $r$ is the radius of the can.
a. Solve the equation for $r$.
b. What is the radius of the can if you need 37.68 inches of yarn? Use 3.14 for $\pi$.

24. Investment An advertisement for a bank states that you can earn $\$ 50$ interest in one year by investing in a savings account that earns $4 \%$ interest. Use the simple interest formula $I=P r t$, where $I$ is the interest on an investment of $P$ dollars at an interest rate $r$ for $t$ years.
a. Which variable should you solve for to find the amount of money you need to invest to earn the $\$ 50$ in interest?
b. Solve the simple interest equation for the variable you identified in part (a).
c. How much money do you need to invest?

## Algebra 1

Chapter 3 Resource Book

