$\qquad$
$\qquad$ Date $\qquad$
2-5
Practice
Form K

Solve each equation for $\boldsymbol{y}$. Then find the value of $\boldsymbol{y}$ for each value of $\boldsymbol{x}$.

1. $y+5 x=6 ; x=-1,0,1$
2. $8 x-4 y=-12 ; x=-3,-1,1$
3. $-3 y=2 x-9 ; x=-3,0,3$
4. $5 x=-y+6 ; x=1,2,3$
5. $6 y=-3 x+12 ; x=-4,-2,0$
6. $-5 y+10 x=5 ; x=-2,0,2$

Solve each equation for $p$.
7. $x p+y p=z$
8. $n=\frac{p-k}{j}$
9. $a=b+c p$
10. $\frac{p+3}{m}=-1$

Solve each problem. Round to the nearest tenth, if necessary. Use 3.14 for $\boldsymbol{\pi}$.
11. What is the width of a rectangle with length 25 in. and area 375 in. ${ }^{2}$ ?
12. What is the radius of a circle with circumference 5 cm ?
13. A triangle has base 15 ft and area $60 \mathrm{ft}^{2}$. What is the height?
$\qquad$
$\qquad$ Date $\qquad$
Practice (continued)
Form K
2-5
Literal Equations and Formulas

## Solve each problem. Round to the nearest tenth, if necessary.

14. In baseball, a player's batting average is calculated by using the formula Average $=\frac{\text { Hits }}{\text { At Bats }}$. Find the number of times a player has batted if he has 24 hits and a batting average of approximately 0.320 .
15. Dan drove 512 miles in 8 hours. What was his average speed for the trip?

Solve each equation for the given variable.
16. $-2 z-x y=x+7$ for $x$
17. $\frac{a}{b}-8=\frac{c}{d}$ for $a$
18. $6 q r+7 r s-2 s t=-9$ for $r$
19. $p=\left(\frac{m+n}{-5}\right)$ for $n$
20. A large box shaped like a rectangular prism needs to be painted.
a. Write a formula for the area $A$ to paint in terms of length $l$, width $w$, and height $h$.
b. Rewrite the formula to find $l$ in terms of $A, h$, and $w$.
c. If $h$ is $36 \mathrm{in} ., w$ is 28 in . and $A$ is $6112 \mathrm{in}^{2}$, what is the length of the prism?

