$\qquad$ Date $\qquad$ Class $\qquad$

SKILL

## Skills Readiness

## 69 Solve Multi-Step Equations

To solve an equation, you need to isolate the variable on one side of the equals sign. Follow the order of operations in reverse to solve a multi-step equation. That is, add and subtract before you multiply or divide. Sometimes, you need to use the Distributive Property before you use inverse operations.

Example: Solve $9 x-6=21$.

$$
\begin{array}{rlrl}
9 x-6 & =21 \\
9 x & & \\
9 x & & \\
& & \text { Add } 6 \text { to both sides. } \\
\frac{9 x}{9} & =\frac{27}{9} & & \text { Divide both sides by } 9 . \\
x & =3 & &
\end{array}
$$

## Practice on Your Own

## Solve.

1. $3 x-2=10$
2. $7 m+3=45$
3. $12+\frac{t}{3}=17$
4. $\frac{p}{4}-3=-5$
5. $-12-9 y=-20$
6. $26=5 c-4$
7. $3\left(\frac{x}{3}+2\right)=-9$
8. $5(2 n-1)=-5$
9. $2(h+3)+5 h=-3$

## Check

## Solve.

10. $8 x+1=17$
11. $-3+\frac{d}{5}=-7$
12. $-12+6 g=14$
13. $18=\frac{t}{2}+15$
14. $-3(x+4)=-5$
15. $5(z-2)+3 z=14$
