## L[sson Practice A <br> 3.1 <br> For use with pages 132-140

## State the inverse operation.

1. Add 23
2. Subtract -18 .
3. Add -50 .

## Check whether the given number is a solution of the equation.

4. $x-8=11 ; 19$
5. $x+4=7 ; 11$
6. $x-5=13 ; 18$

## Solve the equation.

7. $x+6=14$
8. $n+3=8$
9. $15=w+4$
10. $y-7=12$
11. $a-2=10$
12. $22=8+m$

## Complete the sentence.

13. To isolate the variable in $\frac{1}{5} x$, multiply by $\qquad$ or divide by $\qquad$
14. To isolate the variable in $4 x$, multiply by _ ? or divide by ? $?$
15. To isolate the variable in $-\frac{2}{3} x$, multiply by $\qquad$ ? or divide by $\qquad$ -

## Tell whether the equations are equivalent.

16. $6 x=30$ and $x=5$
17. $-9 x=18$ and $x=2$

## Solve the equation.

18. $8 x=40$
19. $-3 b=21$
20. $12=2 m$
21. $-34=2 y$
22. $\frac{1}{2} n=13$
23. $-\frac{1}{7} a=5$
24. Altitude An airplane was at a cruising altitude, then descended 2000 feet. If the airplane is at 18,000 feet now, what was the cruising altitude?

25. Banner You are working on a banner for Friday's pep rally. The length of the banner is 3 times the width. The length is 15 feet. What is the width?

26. Exercising Every week, you run for cardiovascular fitness and lift weights for strength training. You spend about $\frac{1}{3}$ of your weekly exercising time lifting weights. You exercise 12 hours a week. How much time do you spend lifting weights?

## Algebra 1

