Practice A

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 _?_ or divide by _?_.

14. To isolate the variable in
$$4x$$
, multiply by $\underline{?}$ or divide by $\underline{?}$.

15. To isolate the variable in
$$-\frac{2}{3}x$$
, multiply by $\underline{}$ or divide by $\underline{}$.

Tell whether the equations are equivalent.

16.
$$6x = 30$$
 and $x = 5$

17.
$$-9x = 18$$
 and $x = 2$

Solve the equation.

18.
$$8x = 40$$

19.
$$-3b = 21$$

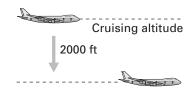
20.
$$12 = 2m$$

21.
$$-34 = 2y$$

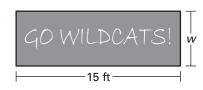
22.
$$\frac{1}{2}n = 13$$

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?