

**Practice A**

For use with pages 138–144

**State the inverse operation.**

1. Divide by 7.
2. Divide by  $-4$ .
3. Multiply by 3.
4. Multiply by  $-6$ .
5. Divide by  $-\frac{1}{3}$ .
6. Multiply by  $-\frac{3}{5}$ .

**Complete the sentence.**

7. To isolate the variable in  $\frac{1}{4}x$ , multiply by \_\_\_\_\_ or divide by \_\_\_\_\_.
8. To isolate the variable in  $-\frac{3}{5}x$ , multiply by \_\_\_\_\_ or divide by \_\_\_\_\_.
9. To isolate the variable in  $\frac{x}{2}$ , multiply by \_\_\_\_\_ or divide by \_\_\_\_\_.

**Tell whether the equations are equivalent.**

10.  $3x = 24$  and  $x = 8$
11.  $-12x = -3$  and  $x = 4$
12.  $\frac{x}{6} = 30$  and  $x = 5$
13.  $\frac{2}{3}x = -8$  and  $x = -12$

**Solve the equation.**

14.  $4x = 12$
15.  $-5x = 40$
16.  $-32 = 16x$
17.  $-3x = -18$
18.  $5 = \frac{1}{4}x$
19.  $7 = 35x$
20.  $-6 = \frac{3}{4}x$
21.  $3 = -9x$
22.  $-x = \frac{1}{2}$
23.  $-\frac{1}{2}x = -6$
24.  $\frac{x}{-4} = 5$
25.  $-15 = \frac{x}{-2}$
26.  $\frac{x}{3} = \frac{1}{6}$
27.  $\frac{x}{-3} = 1$
28.  $-\frac{2}{3}x = \frac{4}{9}$

**In Exercises 29 and 30, write and solve an equation to answer the question.**

29. **Dimensions of a Banner** You are working on a banner for Friday's pep rally. The length of the banner is 4 times the width. The length is 12 feet. What is the width?



30. **Running Laps** In gym class you have to run  $1\frac{1}{2}$  miles on the track. One lap is  $\frac{1}{4}$  mile. How many laps do you need to run?

