

## Pretest

Solve each equation. Check your solution.

1.  $x + 7 = 12$

2.  $x + 9 = 2$

3.  $x - 4 = 5$

4.  $36 = 9x$

5.  $-3a = 15$

6.  $\frac{b}{-3} = -7$

7.  $12 = 0.3n$

8.  $\frac{2}{3}x = \frac{8}{15}$

9.  $4x + 6 = 10$

10.  $3x - 10 = 5x + 20$

Find the multiplicative inverse, or reciprocal, of each number.

11.  $\frac{3}{7}$

12.  $3\frac{1}{4}$

Write an inequality and solve each problem.

13. Five more than a number is at most eleven.

14. The product of a number and 2 is at least twenty.

Solve each inequality. Graph the solution on a number line.

15.  $x - 3 \leq 9$

16.  $-5m > 20$

1. 5

2. -7

3. 9

4. 4

5. -5

6. 21

7. 40

8.  $\frac{4}{3}$

9. 1

10. -15

11.  $\frac{7}{3}$  or  $2\frac{1}{3}$

12.  $\frac{4}{13}$

13.  $n + 5 \leq 11; n \leq 6$

14.  $2n \geq 20; n \geq 10$

