

## Practice

**Solving Multi-Step Inequalities**

Solve each inequality. Then check your solution.

1.  $7a - 5 < 9$

2.  $6 - 11b \leq -3$

3.  $15 < 5 - 8c$

4.  $\frac{d}{6} - 16 < -9$

5.  $\frac{e}{-4} + 8 \leq 1$

6.  $-12 \geq \frac{r}{8} - 5$

7.  $\frac{5s}{6} + 7 > -3$

8.  $5 \geq \frac{3x}{4} + 12$

9.  $-3 - \frac{k}{5} \geq -10$

10.  $15 > \frac{2m}{3} - 1$

11.  $\frac{t+3}{2} < -8$

12.  $\frac{3x-1}{6} < 2$

13.  $4n - 6 > 6n - 20$

14.  $2.4x + 13 \leq 5x$

15.  $5p - 3(p - 6) \leq 0$

Define a variable, write an inequality, and solve each problem.  
Then check your solution.

16. The sum of a number and 81 is greater than the product of  $-3$  and that number.

17. Four more than the quotient of a number and 3 is at least that number.