

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

## 5-5 Skills Practice

### Solving Multi-Step Equations and Inequalities

Solve each equation. Check your solution.

1.  $2(g - 7) = 18$

2.  $5(x + 2) = 30$

3.  $3(3d + 7) = 39$

4.  $4(x - 2) = 3(x + 4)$

5.  $3(f + 2) + 9 = 13 + 5f$

6.  $2(x - 4) = 3(1 + x)$

7.  $2x + 5 = 4(x + 2) - x$

8.  $4(x + 3) = x$

9.  $2(x - 3) = 76$

10.  $7(x - 2) = 5(x + 2)$

11.  $2(4x + 1) = 4(x - 5) - 2$

12.  $4(2b - 6) + 11 = 8b - 18$

13.  $6 + 4(2t - 1) = 3 + 12t$

14.  $9t - 21 = 3(t - 7) + 6t$

15.  $3(4k + 14) = 10k - 2k - 7$

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

16.  $3x + 9 < 18$



17.  $5 + 2x < -9$



18.  $4x - 3 < 2 - x$

19.  $2(n + 2) < 24$