

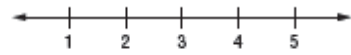
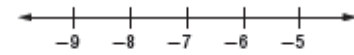
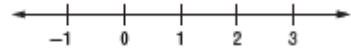
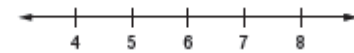
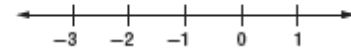
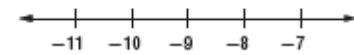
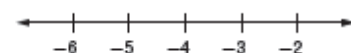
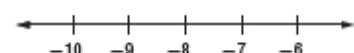
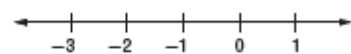
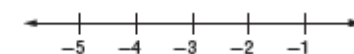
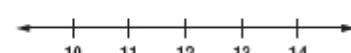
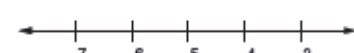
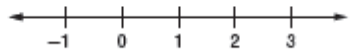
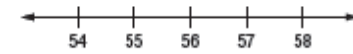
## 5-5 Skills Practice

### Solving Multi-Step Equations and Inequalities

Solve each equation. Check your solution.

- |                                   |                                |
|-----------------------------------|--------------------------------|
| 1. $2(g - 7) = 16$                | 2. $5(x + 2) = 30$             |
| 3. $3(2d + 7) = 39$               | 4. $4(a - 2) = 3(a + 4)$       |
| 5. $3(f + 2) + 9 = 13 + 5f$       | 6. $2(x - 4) = 3(1 + x)$       |
| 7. $2n + 5 = 4(n + 2) - n$        | 8. $4(x + 3) = x$              |
| 9. $2(c - 3) = 76$                | 10. $7(x - 2) = 5(x + 2)$      |
| 11. $2(6x + 1) = 4(x - 5) - 2$    | 12. $4(2b - 6) + 11 = 8b - 13$ |
| 13. $6 + 6(2t - 1) = 3 + 12t$     | 14. $9t - 21 = 3(t - 7) + 6t$  |
| 15. $3(4k + 14) = 10k - 2(k - 7)$ |                                |

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

- |   |  |
|---|--|
| 16. $3x + 9 < 18$<br>             | 17. $5 + 2c < -9$<br>             |
| 18. $4x - 3 < 2 - x$<br>         | 19. $3(n + 2) < 24$<br>          |
| 20. $11 + 2b \leq 3(2 - b)$<br>  | 21. $\frac{m}{3} + 5 \geq 2$<br> |
| 22. $\frac{1}{2}(8 - x) > 6$<br> | 23. $\frac{c}{4} + 7 \geq 5$<br> |
| 24. $y - 3 < 5y + 1$<br>         | 25. $20 - 2n > 26$<br>           |
| 26. $\frac{1}{3}(x - 6) < 2$<br> | 27. $5 - 2k \leq 15$<br>         |
| 28. $-2(3 + t) < -8$<br>         | 29. $\frac{n}{4} - 9 > 5$<br>    |

**5-5 Practice****Solving Multi-Step Equations and Inequalities**

Solve each equation. Check your solution.

1.  $4(j - 7) = 12$

2.  $5(2k + 10) = 40$

3.  $7(2p + 3) - 8 = 6p + 29$

4.  $7(g - 4) = 3$

5.  $3(4c + 5) = 24$

6.  $2(a - 1) = 3(a + 1)$

7.  $3(x - 3) = 5(1.5 + x)$

8.  $2(1.5m + 3) = 3.5m - 1$

9.  $a - \frac{5}{10} = 2a - \frac{3}{5}$

10.  $2.2x - 5 = 2(1.4x + 3)$

11.  $\frac{d}{0.2} = 3d + 2.1$

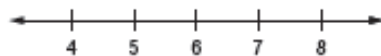
12.  $5n + 3 = 2(n + 2) - 3n$

13.  $\frac{2}{3}a + 2 = \frac{1}{3}(4a + 1)$

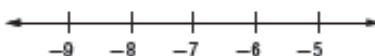
14.  $y - 7 = \frac{1}{4}(y + 2)$

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

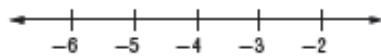
15.  $\frac{2}{3}(12 - x) > 4$



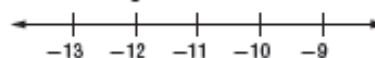
16.  $\frac{1}{2}(8 - c) < 7.5$



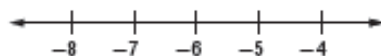
17.  $\frac{c}{3} + 7 > 5\frac{1}{2}$



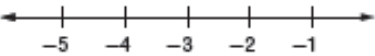
18.  $7 + 2p < -14$



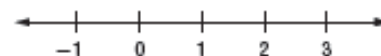
19.  $-3(x + 3) > 7.5$



20.  $5 - 3c \leq c + 17$



21.  $2(n - 5) \leq -7$



22.  $\frac{18 - n}{2} \leq 6$



23. **GEOMETRY** The perimeter of a rectangle is 80 feet. Find the dimensions if the length is 5 feet longer than four times the width. Then find the area of the rectangle.

24. **NUMBER THEORY** Five times the sum of three consecutive integers is 150. What are the integers?

25. **STATE FAIR** Admission to the state fair costs \$5 and each ride costs \$0.75. If Ahmed wants to spend no more than \$14 at the fair, how many rides can he ride?