


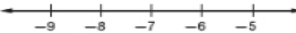
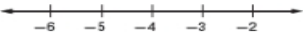
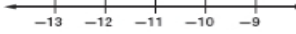
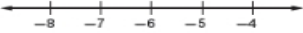
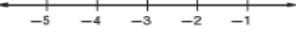
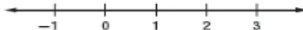

5-5 Practice

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?