

3-2**Practice**

Form G

Solving Inequalities Using Addition or Subtraction

State what number you would add to or subtract from each side of the inequality to solve the inequality.

1. $x - 4 < 0$

2. $3 > -\frac{7}{5} + 5$

3. $6.8 \leq m - 4.2$

4. $x + 3 \geq 0$

5. $2 \leq \frac{5}{4} + s$

6. $-3.8 > m + 4.2$

Solve each inequality. Graph and check your solutions.

7. $y - 2 < -7$

8. $v + 6 > 5$

9. $12 \geq c - 2$

10. $8 \leq f + 4$

11. $-4.3 \geq 2.4 + s$

12. $22.5 < n - 0.9$

13. $c + \frac{4}{7} \leq \frac{6}{7}$

14. $p + 1\frac{1}{2} \geq 1\frac{1}{2}$

3-2**Practice** (continued)

Form G

Solving Inequalities Using Addition or Subtraction**Solve each inequality. Justify each step.**

15. $-y - 4 + 2y > 11$

16. $\frac{1}{7} + d < 1\frac{2}{7}$

17. $\frac{2}{3} + v - \frac{7}{9} \geq 0$

18. $-2p - 4 + 3p > 10$

19. $4y + 2 - 3y \leq 8$

20. $5m - 4m + 4 > 12$

21. The goal of a toy drive is to donate more than 1000 toys. The toy drive already has collected 300 toys. How many more toys does the toy drive need to meet its goal? Write and solve an inequality to find the number of toys needed.
22. A family earns \$1800 a month. The family's expenses are at least \$1250. Write and solve an inequality to find the possible amounts the family can save each month.
23. To go to the next level in a certain video game, you must score at least 50 points. You currently have 40 points. You fall into a trap and lose 5 points. What inequality shows the points you must earn to go to the next level?