

3-2**Practice B***Form K***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. $x - 3 < 0$

2. $3 > -\frac{1}{5} + a$

3. $6.2 \leq c - 3.1$

4. $w + \frac{1}{3} \geq \frac{7}{3}$

5. $m + 2 \geq 0$

6. $2 \leq \frac{1}{4} + s$

Solve each inequality. Graph and check your solutions. The first step is started for you.

7. $y - 3 < 0$

$y - 3 \boxed{} 3 < 0 \boxed{} 3$

8. $4 \geq c + 2$

$4 \boxed{} 2 \geq c + 2 \boxed{} 2$

9. $\frac{1}{3} + f > -\frac{2}{3}$

$\frac{1}{3} \boxed{} \frac{1}{3} + f > -\frac{2}{3} \boxed{} \frac{1}{3}$

Solve each inequality. Justify each step.

10. $-g - 2 + 2g > 4$

11. $j + 1.1 \geq 2.3$

- 12.** A local television station sponsors a food drive. The goal is to donate more than 1000 canned goods. The station already has collected 400 canned goods. How many more canned goods does the television station need to meet its goal? Write and solve an inequality to find the number of canned goods needed.

Let f be how many more canned goods will come.

$$f + 400 \quad \square \quad 1000$$

- 13.** A family earns at most \$2500 a month. The family's monthly expenses are \$2000. Write and solve an inequality to find the possible amounts of money the family could save each month.