

**Blizzard Bag #3**  
**Linear Inequalities**

**Solving Linear Inequalities**

Solve each inequality. Check your solution.

1.  $11y + 13 \geq -1$

2.  $8n - 10 < 6 - 2n$

3.  $\frac{q}{7} + 1 > -5$

4.  $6n + 12 < 8 + 8n$

5.  $-12 - d > -12 + 4d$

6.  $5r - 6 > 8r - 18$

7.  $\frac{-3x + 6}{2} \leq 12$

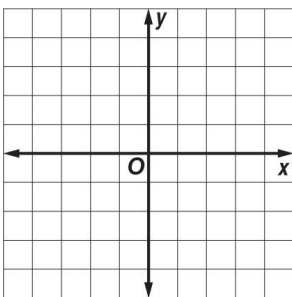
8.  $7.3y - 14.4 > 4.9y$

9.  $-8m - 3 < 18 - m$

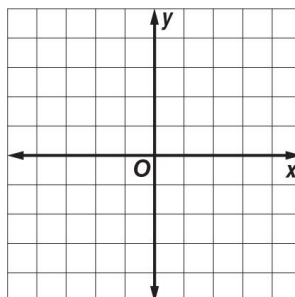
**Systems of Linear Inequalities**

Solve each system of inequalities by graphing.

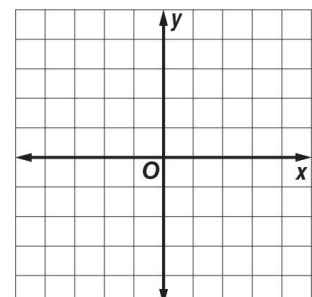
1.  $y > -1; x < 0$



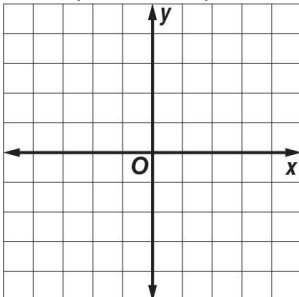
2.  $y > -2x + 2; y \leq x + 1$



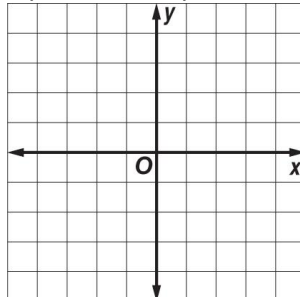
3.  $y < x + 1; 3x + 4y \geq 12$



4.  $2x + y \geq 1; x - y \geq -2$



5.  $y \leq 2x + 3; y \geq -1 + 2x$



6.  $5x - 2y < 6; y > -x + 1$

