

**Learning Activity – Section 1.5 – Linear and Compound Inequalities**

Names: \_\_\_\_\_  
\_\_\_\_\_

Solve each compound inequality. Graph each solution set, and write each solution set in set or interval notation, as appropriate.

1.  $5(x-1) \geq -5$  or  $\frac{5}{3} - \frac{1}{4}x \leq 1$

2.  $-\frac{2}{3} < \frac{y-4}{-6} < \frac{1}{3}$

3.  $-2 < -x - 12$  and  $-14 < 5(x-3) + 6x$

4.  $1.25a+3 > 0.5a-6$  and  $2.5a-1 \geq 9-1.5a$

5.  $0 < 6x+3 \leq 12$

6.  $3 < -(w+3)+4w$  or  $-3 \geq -3(w-5)+6w$