Practice: U1A L7 Practice Compound Inequalities Name: _____ HR: _____

Directions: Solve each of the following showing applicable work. Graph and write the simplest solution set.

1. $x + 3 > 7$ and $x - 2 < 10$	2. $y - 5 < 2$ or $y + 4 > 12$
3. $-2 < z + 1 \leq 6$	4. $2x - 3 > 5$ and $x + 4 \leq 10$
5. $\frac{1}{2}m + 3 < 7$ or $m - 4 > 10$	6. $-4 \leq \frac{2}{3}p - 2 < 8$
7. $3q + 5 > 14$ and $-q + 2 < 6$	8. $\frac{1}{4}r - 1 \geq 2$ or $2r + 3 < 7$

9. $5(s-2) < 20$ and $s+4 > 1$	10. $-3(t+1) \geq 9$ or $2t-5 < -1$
11. $\frac{2}{3}u + 4 > 6$ and $u - 1 \leq 7$	12. $7 < 2v - 3$ or $v + 5 \geq 12$
13. $-2w + 3 < 5$ and $w - 4 > -6$	14. $\frac{1}{5}x - 2 \leq -1$ or $3x + 4 > 10$
15. $4(y-2) + 3 > 7$ and $2y - 1 < 9$	16. $2(a-3) + 5 < 11$