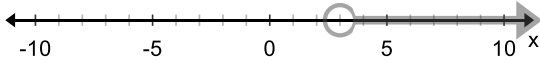*Sec 1 H Unit 1 Day 5 - Solve Inequalities Assignment*
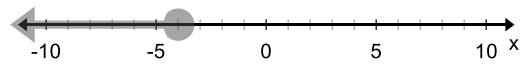
Write the inequality for the solution graphed.
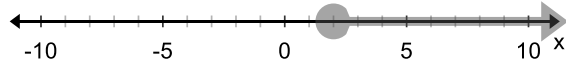
1)

2)

3)

4)

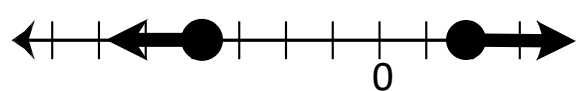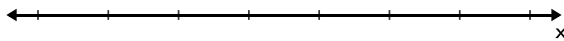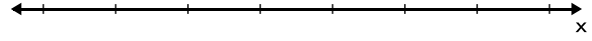**Graph each inequality or compound inequality.**

5) $x > 2$
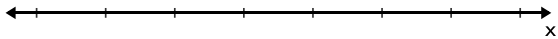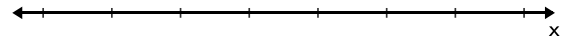

6) $x \geq -345$

7) $-5 \leq x < -2$

8) $x > -4$ and $x \leq 2$
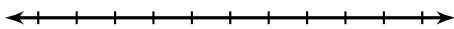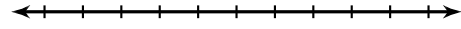

Solve each inequality and graph its solution.

9) $3 < -5n + 2n$
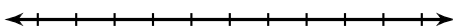

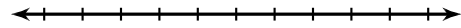**10)** $6x + 2 + 6x < 14$

11) $-p - 4p > -10$

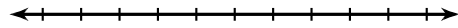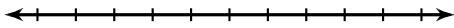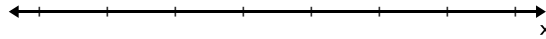**12)** $-6(1 + 7k) + 7(1 + 5k) \leq -1$

13) $-2(2-2x) - 4(x+5) \leq -24$

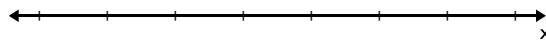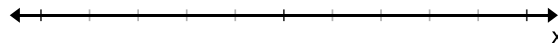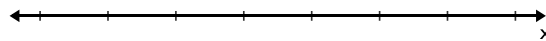**14)** $-3 - 6(4x+6) > -111$

15) Graph $2 < x$

16) Graph $2 \leq x < 7$

17) Graph $-9 < x < -1$

18) Graph $0 \leq x < 3.5$

19) Explain in words what this inequality means: $100 \leq x \leq 101$

20) Explain in words what this inequality means: $x \leq 100 \; or \; x \geq 101$

"No matter how many mistakes you make or how slow you progress,
you're still way ahead of anyone who isn't trying."   Tony Robbins