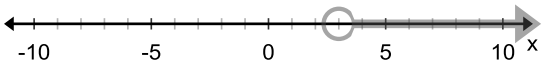
Name:_____ Period: _____ Date: _____ Score: _____

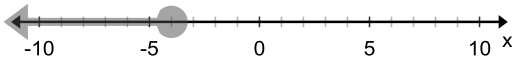
Solve Inequalities Assignment

Write the inequality for the solution graphed.

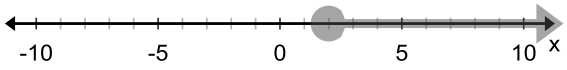
1)



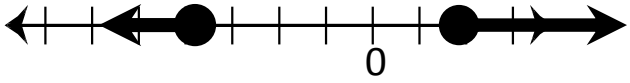
2)



3)

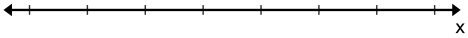


4)

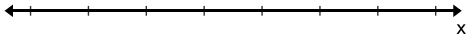


Graph each inequality or compound inequality.

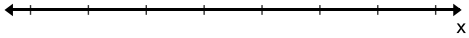
5) **x > 2**



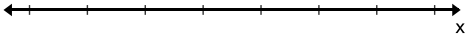
6) **x ≥ -345**



7) **-5 ≤ x < -2**

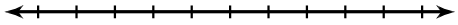


8) **x > -4 and x ≤ 2**

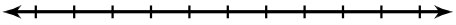


Solve each inequality and graph its solution.

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

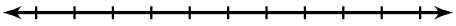


6) $6x + 2 + 6x < 14$

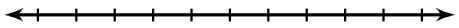


7) $-p - 4p > -10$

8) $-6(1 + 7k) + 7(1 + 5k) \leq -1$

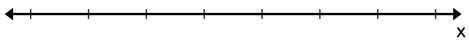


9) $-2(2-2x)-4(x+5) \leq -24$

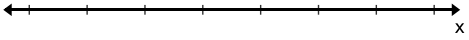


10) $-3-6(4x+6) > -111$

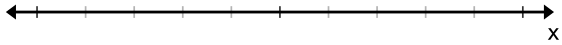
11) Graph $2 < x$



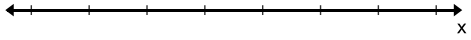
12) Graph $2 \leq x < 7$



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



14) Graph $0 \leq x < 3.5$



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

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