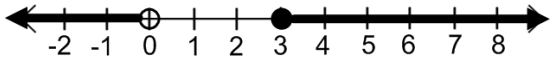
Name: _____ Date: _____

Compound Inequalities (Day 1) CC Algebra

1. Which inequality represents the phrase, "all real numbers that are greater than –7 and less than –4"?

   A. $n > -7$
   B. $n < -4$
   C. $-7 < n < -4$
   D. $n > -7$ or $n < -4$

2. Which compound inequality represents the graph below?

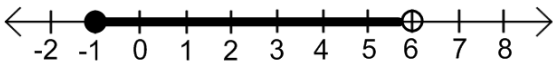


   A. $0 < d \leq 3$
   B. $0 \leq d < 3$
   C. $d < 0$ or $d \geq 3$
   D. $d \leq 0$ or $d > 3$

3. What are the solutions of $3b - 4 < -10$ or $2b + 7 \geq 9$?

   A. $b > -2$
   B. $b \leq 1$
   C. $-2 < b \leq 1$
   D. $b < -2$ or $b \geq 1$

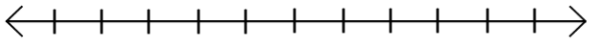
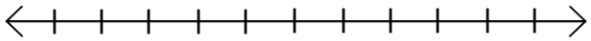
4. Which compound inequality represents the graph below?



   A. $-1 < x \leq 6$
   B. $-1 \leq x < 6$
   C. $x < -1$ or $x \geq 6$
   D. $x \leq -1$ or $x > 6$

5. Solve the compound inequalities and graph your solution set on a number line:

(a) $-4 \leq 3p - 7 < 5$



(b) $5 - m > 4$ or $7m > 35$