3-6 Compound Inequalities Notes

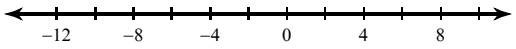
Name_____

Hour____

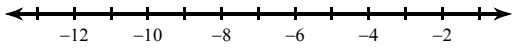
Solve each compound inequality and graph its solution.

Compound Inequalities OR: Arrows go in opposite directions. Inequalities are written seperately.

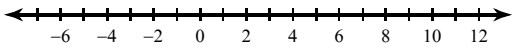
1) $9b + 9 < -72$ or $11b - 9 > 68$



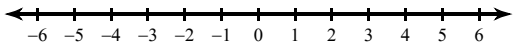
2) $-4 + 11n \leq -103$ or $-4n - 12 < 4$



3) $12 + 5p < 2$ or $4p - 12 \geq 20$

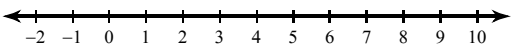


4) $2 - 8k \leq -6$ or $11k - 2 \leq -2$

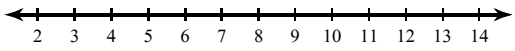


Compound Inequalities AND: Solutions are between two points. Inequalities can be written as one long inequality.

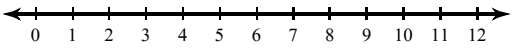
5) $-8k - 1 > -65$ and $10k + 11 > 71$



6) $3 \geq 2b - 7 \geq 1$



7) $9m - 2 \geq 70$ and $4m + 11 < 55$



8) $-22 < 3m + 11 \leq -4$