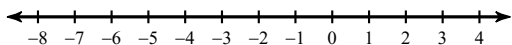


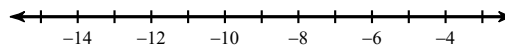
SM2a HW #1-5 (Compound Inequalities)

Solve each compound inequality (write a simplified version of the inequality) and then graph its solution.

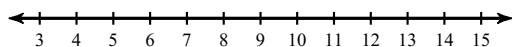
1) $8n \geq -32$ and $\frac{n}{2} < 0$



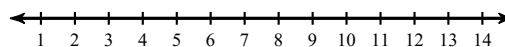
2) $x - 7 \leq -16$ or $x + 1 \geq -6$



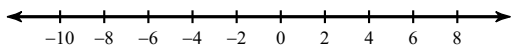
3) $2x < 14$ or $3x \geq 30$



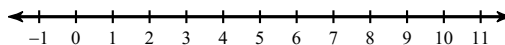
4) $x + 6 \geq 15$ or $4 + x < 9$



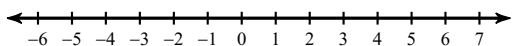
5) $-10 < k - 2 < 6$



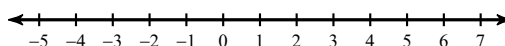
6) $-5p > -35$ and $8p \geq 16$



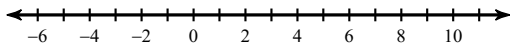
7) $-4 \geq n - 8 \geq -13$



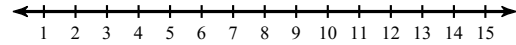
8) $10b \geq -20$ and $-7 + b < -3$



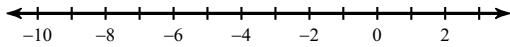
9) $-5 + x > 2$ or $3 + x < 1$



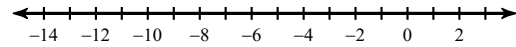
10) $\frac{v}{2} > 5$ or $v + 3 \leq 7$



11) $x - 9 \leq -15$ or $\frac{x}{6} \geq 0$



12) $k + 9 \leq -1$ or $\frac{k}{10} \geq 0$



13) Write a mathematical representation (inequality) that means:
"The are between 10,000 and 20,000 people at the game."

14) Write a mathematical representation (inequality) that means:
"At most, there are 500 cows on the farm."