

Compound Inequalities - Solving

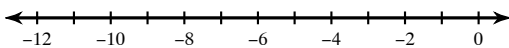
1) When solving compound inequalities, you can separate it into two inequalities and then solve each.

Lets solve the following:

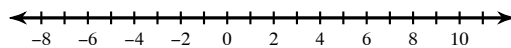
$$-3 \leq m - 4 < -1$$

Solve each compound inequality and graph its solution.

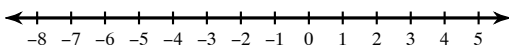
2) $-15 < 5x < -10$



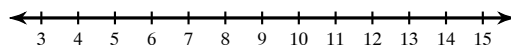
3) $-14 < -8 + p \leq 2$



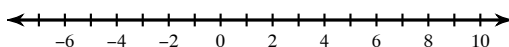
4) $3 \leq 8 + a < 12$



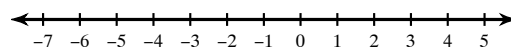
5) $14 < x + 8 < 16$



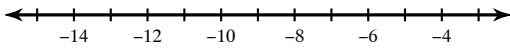
6) $-5n < -30$ or $-5n \geq 20$



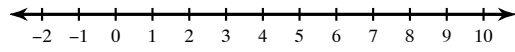
7) $x + 1 \geq 3$ or $-9 + x \leq -12$



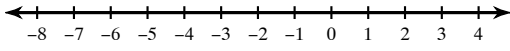
8) $-13 < n - 3 \leq -8$



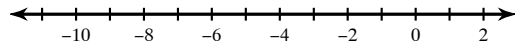
9) $x - 2 \leq 1$ or $4 + x \geq 11$



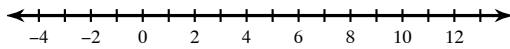
10) $-21 \leq 6 + 9r \leq 6$



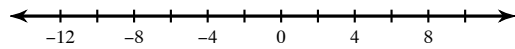
11) $5x - 8 < -43$ or $7 + 9x > -11$



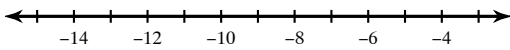
12) $3p - 2 \leq 1$ or $10p - 1 \geq 99$



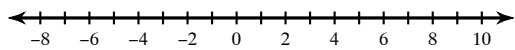
13) $9k - 4 > 68$ or $7k - 2 \leq -58$



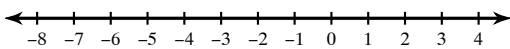
14) $8a - 7 \geq -79$ and $8a + 3 \leq -61$



15) $-4 < 2m + 8 < 24$



16) $-36 \leq -1 + 7x < 13$



17) $x - 7 > -5$ or $2x - 6 \leq -6$

