

Inequalities

$< =$ _____ For example, Circle one: ● or ○	$> =$ _____ For example, Circle one: ● or ○
$\leq =$ _____ For example, Circle one: ● or ○	$\geq =$ _____ For example, Circle one: ● or ○

Open vs. Closed Circle - What's the Difference?

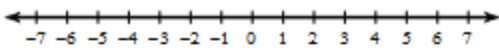
What happens to the inequality sign when you add or subtract a negative #? _____

What happens to the inequality sign when you multiply or divide by a negative #? _____

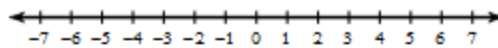
To solve an inequality means...

Draw a graph for each inequality.

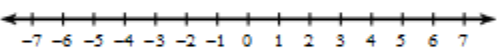
1) $4 > x$



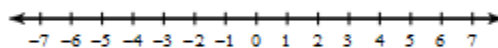
2) $p > -4$



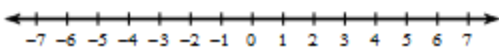
3) $-n < -5$



4) $2 \geq -n$

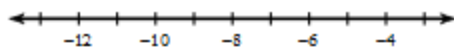


5) $x \leq -3$

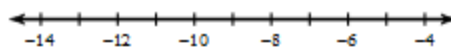


Solve each inequality and graph its solution.

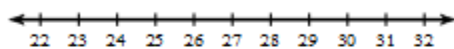
1) $65 \leq -13n$



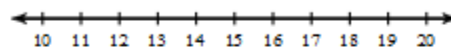
2) $a - 7 > -17$



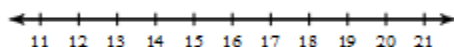
3) $\frac{v}{3} \leq 9$



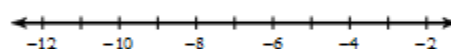
4) $-25 < -10 - p$



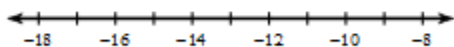
5) $6 + 4v \leq 74$



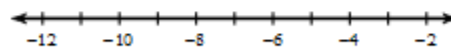
6) $5 + \frac{b}{6} \leq 4$



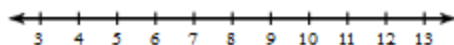
7) $-6 + 8x > -110$



8) $8(n + 5) < -32$



9) $4(x - 2) \leq 20$



10) $4 + \frac{n}{2} < 9$

