Unit 1 Inequalities

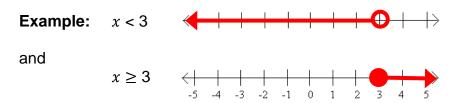
Solving Inequalities:

Rule: If you multiply or divide by a negative number then flip the inequality sign.

Example:	-4x < 10	
	-4x < 10 - 4	Divide both sides by -4
	$x > -\frac{5}{2}$	Flip the inequality sign and reduce the fraction
Graphing inequalities:		

Rule: Graphing inequalities:

> or < will graph using an open circle Whereas $\ge or \le$ will graph using a closed circle



Interval notation:

Rule: Writing inequalities in Interval notation:

> or < will use parenthesis, (or) Whereas $\geq or \leq$ will use brackets, [or]

 $-\infty$ and ∞ will always use parenthesis, $% = -\infty$ (or)

Example: And	<i>x</i> < 3	interval notation:	(−∞,3)
	<i>x</i> ≥ -2	interval notati	ion: [−2,∞)