Inequality	An inequality says that two values are **not equal**. $a \neq b$ means that a is not equal to b.	$7 \neq 3$ $x \neq 0$
Inequality symbols	$x > 2$ means **x is greater than 2** $x < 3$ means **x is less than 3** $x \geq 1$ means **x is greater than or equal to 1** $x \leq 6$ means **x is less than or equal to 6**	State the integers that satisfy $-2 < x \leq 4$. -1, 0, 1, 2, 3, 4
Inequalities on a Number Line	Inequalities can be shown on a number line. **Open circles** are used for numbers that are **less than or greater than** ($< or >$) **Closed circles** are used for numbers that are **less than or equal or greater than or equal** ($\leq or \geq$)	 $x \geq 0$  $x < 2$  $-5 \leq x < 4$
Solve	This works in exactly the same way as solving an equation. The only difference is that instead of finding one specific number, you find a range of numbers as your answer. To find the **answer**/value of something **Use inverse operations** on both sides of the equation (balancing method) until you find the value for the letter.	Solve $2x - 3 < 7$ Add 3 on both sides $2x < 10$ Divide by 2 on both sides $x < 5$