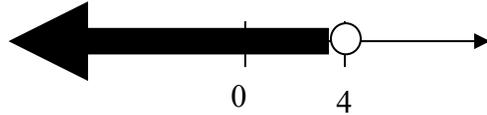


Inequalities and Their Graphs

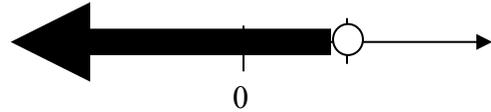
SIGN	SAID	GRAPHED
$>$	“greater than”	open dot, shade to the right
$<$	“less than”	open dot, shade to the left
\geq	“greater than or equal to”	closed dot, shade to the right
\leq	“less than or equal to”	closed dot, shade to the left
\neq	“not equal to”	open dot, no shading

☺ **ALWAYS** read the inequality sentence starting with the variable.

Ex: $x < 4$ is read “x is less than 4” and the graph:



Ex: $4 > x$ is read “x is less than 4”

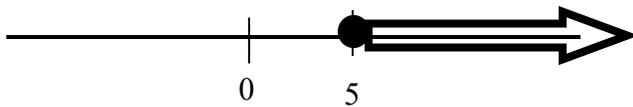


You can rewrite the inequality so that the variable is always on the left.

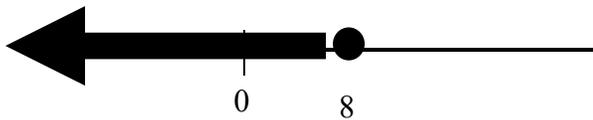
if $-5 \geq y$ flip & rewrite $y \leq -5$

Ex: Graph the solutions of each inequality on a number line.

$a \geq 5$



$x \leq 8$



$-7 < y$

