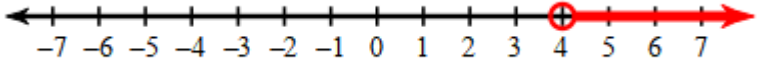
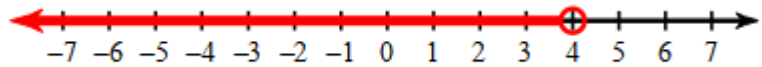
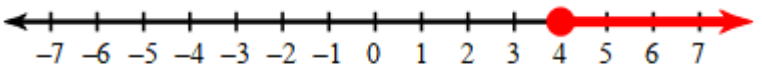
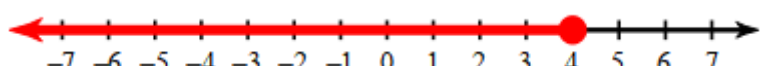


Algebra: Inequalities Know-It-All

Inequality Symbol	How You Say It	How You Graph It
$x > 4$	x is greater than 4	
$x < 4$	x is less than 4	
$x \geq 4$	x is greater than or equal to 4	
$x \leq 4$	x is less than or equal to 4	

Notice the open and closed circles in the graphs

PRO TIPS:

- ✓ Solve the inequality just like you would solve an equation...for example:

$x + 3 < 5$ Solve as if it said: $x + 3 = 5$

- ✓ If you have to divide by a negative when you're solving, then you have to change the inequality sign.

$-6x > 12$ Divide by -6 on both sides: $\frac{-6x}{-6} > \frac{12}{-6}$ Next, change the $>$ sign to $<$. Answer: $x < -2$

- ✓ Be sure to write your answer so that the variable, usually " x " is on the *left* side of the problem. If you end up with $3 > x$, then you need to turn it around and the inequality symbol will change also.

$3 > x$ becomes $x < 3$