

# SOLVING INEQUALITIES WITH ONE VARIABLE

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## INEQUALITIES practice 1

Directions: Solve and graph each inequality. Show all work.

1.  $3x - 4 < 5x - 8$

2.  $\frac{3}{4}x - 6 \geq -2$

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## SOLVING INEQUALITIES notes

solving an inequality - To solve an inequality, \_\_\_\_\_ the variable (get the variable by \_\_\_\_\_)

Example:  $2x - 7 > 13$

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## GRAPHING ONE VARIABLE INEQUALITIES notes

inequality - a \_\_\_\_\_ between values that involves one of the following symbols:

$>$  : greater than       $\geq$  : greater than or equal to  
 $<$  : less than       $\leq$  : less than or equal to

graphing an inequality - we can graph a one variable inequality on a \_\_\_\_\_ line

Example: graph  $x < 3$  on the number line



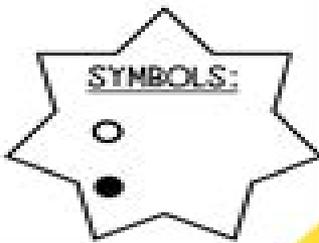
Example: graph  $x \geq -8$  on the number line



Examples: Graph each inequality on the number line.

1.  $x \leq 0$       2.  $x > 4$

**SYMBOLS:**



reverse the inequality.

**THINK ABOUT IT!**  
Why do we flip the sign?  
Flipping the sign and see if the inequality is still true.

# Making Practice Fun 63 Graphing Inequalities In One Variable

**M Mark**



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