

Day 3 Graphing Inequalities

Write the appropriate vocabulary word in the correct box.

Above
at most
no greater than





More than
Greater than
minimum

at least
below
maximum

less than
no more than
fewer than

$>$	\geq	$<$	\leq

Model "Let's Take Notes!"

<u>Symbol</u>	<u>Meaning</u>	<u>Graph</u>
$>$		
\geq		
$<$		
\leq		

Practice Makes Perfect!

Examples: Let's Graph each inequality on the number line.

1) $X < 5$

a) Will it be an open or closed circled circle?

b) List three values that satisfy this inequality.

_____, _____, and _____

c) Graph the inequality on the number line.



2) $X \geq 5$

a) Will it be an open or closed circled circle?

b) List three values that satisfy this inequality.

_____, _____, and _____

c) Graph the inequality on the number line.



3) $X \leq -6$

a) Will it be an open or closed circled circle?

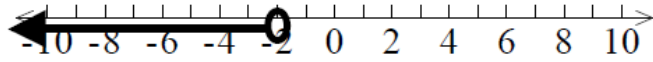
b) List three values that satisfy this inequality.

_____, _____, and _____

c) Graph the inequality on the number line.



- 4) Joseph was asked to graph the inequality $x > -2$. Look over Joseph's graph below and determine if he is correct or not. Justify your answer.



Model Let's Graph Inequalities on a Number Line!

Graph the solution set on the real number line.

a) $x > -3$

b) $x \leq -5$

c) $x \geq 4$

d) $x < 7$

e) $x > 12$

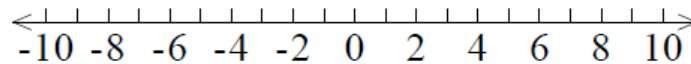
f) $x \neq 3$

g) $2 > x$

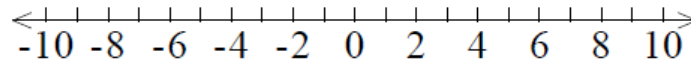
Check for Understanding

Directions: Graph the following inequalities.

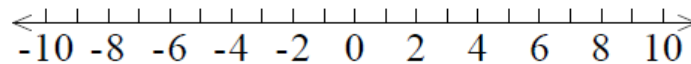
1. $f > 7$



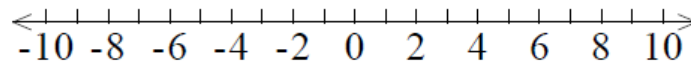
2. $m < 4$



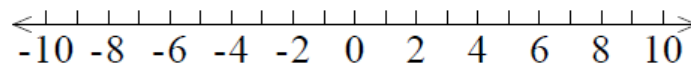
3. $a \geq -1$



4. $z \leq 5$



5. $6 \geq p$



Model Write the appropriate inequality for each example below:

Graph

Inequality

