**Inequalities and Their Graphs Notes Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| Symbol | **Example** | Number line |
| > | x > 3x is \_\_\_\_\_\_\_\_\_ than 3 |  |
| ≥ | x ≥ -8x is \_\_\_\_\_\_\_\_ than or \_\_\_\_\_ to -8 |  |
| < | x < -6x is \_\_\_\_\_\_\_\_ than -6 |  |
| ≤ | x ≤ 7x is \_\_\_\_\_\_\_ than or \_\_\_\_\_\_\_ to 7 |  |

**Examples:**

1) Graph on a number line **x < -2**

2) Write the inequality and graph on a number line.

m is greater than or equal to 65

Other words related to these inequalities.

* At most. “The temperature will be *at most* 60o.”
* Above. “The temperature will be *above* 60o.”
* At least. “Everyone made *at least* a 75 on their test.”
* No more than. “You should spend *no more than* $25 on that shirt.”