Warm Up – Match each symbol to the correct words...

1. < B 2. > D 0 < 100

A. Equal to

3. = A

B. Less than

C. Less than or equal to

4. ≤ C

D. Greater than

5. ≥ E

E. Greater than or equal to

Inequalities:

<	>	≤	≥
less than	greater than	less than or equal to	greater than or equal to
Example: 24 < 60	Example: 60 > 24	Example: $ 00 \leq  00 $	Example: (00 ≥ 90
-5 < -\	-6>-8	100 ≤ 101 -5 ≤ -1	-4002-800 -400>-400

**Ex. 1:** Write in words what each inequality means.

**A.** 10<15

 $C.-5 \le 4$ 

10 is less than 15

-S is less than or equal to 4

**B.**  $20 \ge 3$ 

20 is greater than or equal to 3

D.-3 > -4

Sec1	Notes 2-1	
	Write and Graph Inequalities	

Unit 2

Ex. 2: Using the words, write an inequality that represents it.

A. X is less than 7

3 Possible answers

**B.** Y is greater than or equal to 25<sub>0</sub>

C. Z is less than or equal to  $\frac{9}{-10}$ 

At Most	4
At Least	2
No More than	<u> </u>
No Less than	≥
Less than	<
Only Have	∠ _
Greater than	>
More than	>

Mom, I need \_\_\_\$100. at most > You only have \$100 for grocenes.

Ex. 3: Write an inequality to represent each of the following.

A. Sam has more than 5 video games.

**B.** Jose needs a least \$50 for the store.

C. Julia only has \$35 for groceries.  $T \leq 35$ 

**D.** Payton has at most 60 minutes to spend on homework.

P < 60

Sec1	Notes 2-1 Write and Graph Inequalities Unit 2		
Graphing Inequ			
Rut a circle	_ and ● if it is = ○ if it is no	: to (< or z) ot = to (< or 7)	
Put an armu		The variable must be on the	
Ex 4: Graph <i>x</i> > 7	< <b>←</b> Graph	must be or the	
4 <u>Q</u>	3 0	0	
Graph g<−5	Graph	$z \ge 100$	
<del>-</del>	· · · · · · · · · · · · · · · · · · ·	COQ	
Graph 15< x 入> 与	Graph	$h \ge -10$	
\/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \	<del></del>	-10	
Graph $2x < 6$	Graph	20≥x ×≤20	
•		20	