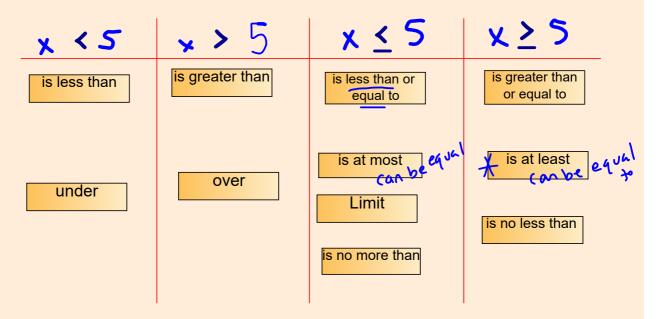
2.1 Inequalities Your Name

Mrs. T
| 0 / | / 20 2 ()
Notes

Objective: To be able to write inequalities from a sentence or a graph. To be able to graph inequality solutions. To understand how to check solutions in inequalities.

Life Lesson/Skill: When we graph inequalities with two variables on a coordinate plane, we need to be able to check our solutions to understand how to shade. Graphing on a number line is similar to graphing on a coordinate plane.

Inequality/hich inequality does the Words description express? Sort them.



Ask yourself: Can it be more? Yes or No? Can it be equal?

X 5

Writing Inequalities	Ask yourse	elf: Can it be	more? Can it l	be equal?	
	is less than	is greater than	is at most is less than or equal to	is at least is greater than or equal to	
	2. Childr 3. Must be	1. Children under 6 eat free. 2. Childs age 2. Childs age 3. Must be over 40 inches tall to ride this ride. Consider the process of the p			

Write an inequality for each situation.

*page 431 might help with this

Chris' height is greater than than 40 inches.



I think all SUVs should have a fuel efficiency of at least 30 miles to the gallon.

X: fuel efficiency m/g

She has collected more than 33 signed baseballs.

X: collected buseballs

X > 33

He has no more than 8 pets in his house.

X: # pets: nhase



The boy gets paid \$5 per hour to babysit and last night he made at least \$40.

X: # hours baby s: thing 5·X ≥40 or 5x ≥40

1. A number x is greater than 3

2. A number n plus 7 is less than or equal to 9

 $n+7\leq 9$

3. Three is no more than the sum of a number x and 4.

(Remember: Sum means addition)

 $3 \leq (x + 4)$

or $3 \leq x + 4$

4. Thirteen is at least the difference of a number y and 1 (Remember: Difference means subtraction)

 $13 \geq (y-1)$

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5. Fifteen is at most the product of a number w and 1154 (Remember: Product means multiplication)

er: Product means multiplication)

6. Four is no less than the quotient of a number x and 2.1 (Remember: Quotient means division)

 $y \geq (X+2.1)$

 $\frac{1}{4} > \frac{x}{2.1}$