Problem of the Day: Solve the equation. 5(n-3)-2(h-6)=6n+5-nPlan for the Day: Collect extra crediflogic puzzles

Go over last week's homework

Notes on graphing inequalities

Activity with comparing inequalities

Objective: We will be able to graph inequalities

Good luck JH Volleyball at Rusk!!

Today is National Teddy Bear Day!!

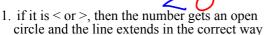
- < means less than
- > means greater than
- \leq means less than OR equal to
- \geq means greater than OR equal to

Inequality- open sentence featuring <, >, <, >; differs from an equation because it is not equal (does not have an =)

Inequalities do not have one answer, but rather a **solution set** of numbers that make it true.

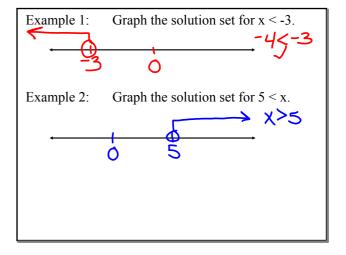
Examples: x < 6 x > -35.99, 5,4,3,-3,0 -2,-1,100,0,1

Graph the solution set



2. if it is ≤ or ≥, then the number gets a closed circle and the line extends in the correct way





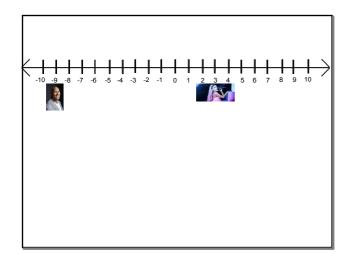
Example 3: Write an inequality to represent the solution set shown.



Example 4: Write an inequality to represent the solution set shown.



Operation	Welker A's Position	Inequality Symbol	Walker's B Position	ROCK
Starting Number	2		4	
Add 2	4	<	6	
Subtract 3	1	<	3	
Add -2	-1	<	1	
Subtract -4	3		5	
Multiply by 2	6		10	
Subtract 7	-1	<	3	
Multiply by -3	3		-9	
Add 5	_			
Divide by -4				
Subtract 2				
Multiply by -1				



	Inequality Symbol	Walker B's Position
Starting Number		
Add		
Subtract		
Multiply by		
Divide by		

Which operations on an inequality reverse the inequality symbol?

What is the difference between solving an equation and an inequality?