Name:			Date:
Notes			
Algebra S	ection 6.1		
Pages 356	-361		
Goal: "Y	ou will solve inequ	alities using addition and subtraction"	
$x \ge 5$ me	eans that x can be:		
$x < -1 { m m}$	eans that x can be	x <u>CANNOT</u> be!	
To Graph	a Number on a r	number line:	
1.	Start with the	on the	
2.	Place a	(filled in) circle if or 7	This means that the number is
		_ in the solution.	
	Place an	(not filled in) circle if or	This means that the number is
		in the solution.	
3.	Draw an	pointing to all of the other	

Graph the following inequalities on a number line:

Ex: Graph x < 3.

Ex: Graph $x \ge -1$

Ex: Graph $5 \ge x$

Solving inequalities using addition and subtraction:

+ +

+-

1. Solve like a normal	(use)
2. Graph the	on a	
Ex: $x - 5 > -3.5$		
	~ 	
Solve and graph solution on	a number line:	
Ex: $x - 9 \le 3$	Ex: $p - 9.2 < 5$	Ex: $-1 \ge m - \frac{1}{2}$
~ 	+ + + + + + + + + + + + + + + + + + +	~
Ex: $9 \ge x + 7$	Ex: $y + 5.5 > 6$	

Ex: You are checking a bag at an airport. Bags can weigh no more than 50 pounds. Your bag weighs 16.8 pounds. Find the possible weights w (in pounds) that you can add to the bag.

+-