6 - 1 Solving Inequalities by Addition and Subtraction

For all numbers a, b, and c...

1.)

2.)

Ex:
$$x - 45 \le 13$$

 $x \le 45 \le 13$
 $x \le 58$

Ex:
$$19' + y \ge 16$$

$$\sqrt{y} \ge -3$$

Ex:
$$5p + 7 > 6p$$

$$7 > P$$

$$9 < 7$$

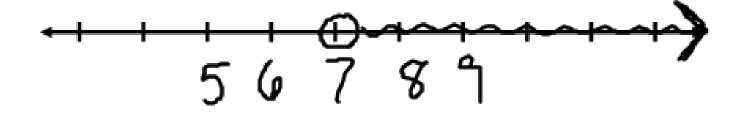
Ex: Write an inequality for the sentence, then solve.

"Four times a number is no more than three times that number plus eight."

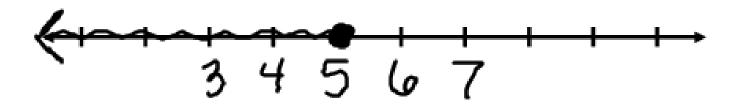
Graphing Inequalities

- means < >
- means <u>∠</u> ≥

Ex: x > 7



.



Ex: x < 2



Ex: x ≥ -1



.

Ex: x > 12



Ex: $x \leq 0$



Ex: Solve and graph:

 $-12n - 4 \le -11n$



Homework:

6 - 1 WS