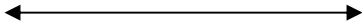


# Notes on Inequalities

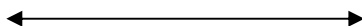
## 7<sup>th</sup> Grade Math

Graph the following inequalities

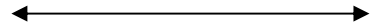
$$x \leq 7$$



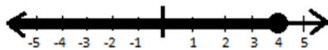
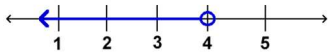
$$-4 > x$$



$$3 \geq x$$



Write an inequality for each graph



Determine whether each number is a solution of the given inequality.

1.  $-2 < x$

a. -3

b. -2

c. -1

2.  $x \geq 12$

a. 12

b. 11

c. 13

3.  $x < -9$

a. -4

b. -8

c. -10

## Solving Inequalities with adding and subtracting

Examples:

1.  $x + 8 \geq 18$

2.  $n - 2 \leq 4$

3.  $p + 8 > -4$

## Solving inequalities with multiplying and dividing

**RULE:**

1.  $-35 \geq -7x$

2.  $-60 \geq 12b$

3.  $-1 > \frac{x}{7}$