#### **INEQUALITY APPLICATION WORDS**

LESS THAN (<)

- FEWER THAN
  - BELOW
- IS SMALLER THAN

**GREATER THAN (>)** 

- MORE THAN
- EXCEEDING
  - ABOVE
- LARGER THAN

LESS THAN OR EQUAL TO (≤)

- NO MORE THAN
  - NOT ABOVE
- DOES NOT EXCEED
  - AT MOST
- IS NOT GREATER THAN
  - \*MAXIMUM\*

GREATER THAN OR EQUAL TO (≥)

- AT LEAST
- NO FEWER THAN
- NOT SMALLER THAN
- IS NOT LESS THAN
  - NOT UNDER
  - NO LESS THAN
    - \*MINIMUM\*

# EXAMPLE #1

Albert earns \$3.50 for each hour he works. If he wants to earn at least \$52.50, how many hours must he work?

 $\frac{(\chi - hours)}{3.50}$ 

### Ex #2:

The daily production cost for a skate factory cannot be more than \$5400. It costs \$15 in materials to make each pair of skates, and the daily operating costs are \$900. How many pairs of skates can be produced given these restrictions?

## EX #3

Kevin's history grade will be determined by the average of 4 tests. He earned a 76, an 85, and a 74 on the first 3 tests. He needs to get an average of at least 80 to receive a B. What is the minimum grade he can make on the 4<sup>th</sup> test to achieve his goal?

#### **COMPOUND INEQUALITY**

TWO SIDED INEQUALITIES THAT YOU MUST KEEP BALANCED!

IF YOU DIVIDE/MULTIPLY BY
A NEGATIVE YOU MUST FLIP
BOTH INEQUALITY SIGNS!!!



