### 5.7 Write Inequalities Key Symbols

## Inequality Symbols



- Note: To write an inequality, look for the above phrases to determine where to place the inequality symbol.

Example: Write an inequality that represents the situation.
1.) Maria can lift at most 60 pounds. What weights can Maria lift?

$$
x \leq 60
$$

2.) Tina's car should not travel more than 3,000 miles without an oil change. What are the possible miles she can travel before an oil change?

$$
C>3000
$$

3.) A fish tank can hold as much as 22 gallons of water. How many gallons of water might the fish tank hold?

$$
f \leq 22
$$

Example: Write an inequality that represents the situation. Show the inequality on a number line.
4.) Carter runs less than 7 miles in one hour. How many miles might Carter have run?

5.) A banquet hall can hold up to 1000 people. How many can go to the prom at the banquet hall?


Example: Write an inequality that represents the situation. Show the inequality on a number line.
6.) A train stops at your station once an hour. How many minutes might you wait for a train, assuming the trains are on schedule?

$$
t<00
$$

7.) The longest Jessica can hold her breath underwater is 96 seconds. How long might Jessica swim underwater before surfacing?

$$
j \leq 96
$$

8.) Kamal wants to make more than one cup of trail mix. How many cups of trail mix might Kama make?


