

Inequality Review

These are words you should know. Fill in the blank with the inequality sign that represents each:

_____ Less than

_____ Less than or equal to

_____ At most

_____ Maximum

_____ No more than

_____ Fewer than



_____ Greater than

_____ Greater than or equal to

_____ At least

_____ Minimum

_____ No less than

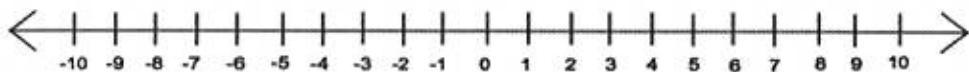
_____ More than

Write an Inequality to represent each situation:

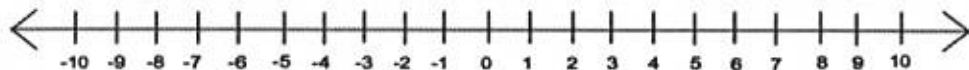
- Last week's profits were **at most** \$50.00.
- The cost of advertising for the concert was **less than** \$50.00.
- The cost of the snacks was **greater than** the \$12.00 movie ticket.
- The price for a nice meal at the restaurant is **no more than** \$20.00.
- The next town is **at least** 60 miles away.
- The **maximum** speed is 55 mph.
- I will spend **at the most** \$150.00.
- He charges **less than** \$400 to paint a car.
- This wire can produce **no more than** 350 volts of electricity.
- We have **fewer than** 30 people who plan on attending the trip.

Graph each of the inequalities on the number line.

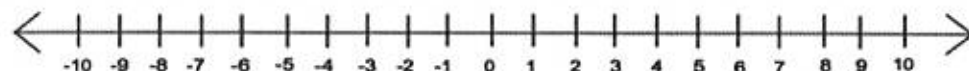
$x \geq 7$



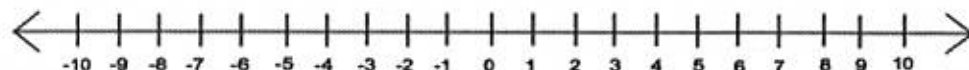
$x < -1$



$x > -8$



$x \leq 2$



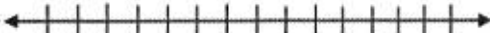
Inequality Review

Write an Inequality for each statement. Then graph your inequality.

A maximum of 6 people in the car. _____ 

She must sell at least 25 tickets. _____ 

Joe must save a minimum of \$100. _____ 

The baby weighs less than 15 pounds. _____ 

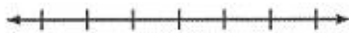
Write the word sentence as an inequality.

1. A number b times 3.5 is no less than 21.
2. The quotient of a number y and 9 is greater than 4.
3. The difference between a number h and $\frac{1}{4}$ is at most 0.
4. The sum of a number w and 2.56 is at least 10.24.
5. The product of 6 and number c is less than 12.

Solve the inequality. Graph the solution.

3. $t - 4 < -4$

4. $-9 \geq 2 + d$



5. $-3.4 > c - 1.2$

6. $j + \frac{5}{12} < -\frac{3}{4}$



7. A bounce house can hold 15 children. Seven children go in the bounce house. Write and solve an inequality that represents the additional number of children that can go in the bounce house.