**Today’s Objectives** --

* I can solve multi-step inequalities with variables on one and/or both sides.
* I can graph inequalities and be able to identify solutions to inequalities.
* I can model situations by using inequalities.

Solve the following inequalities. Check your solution.

1.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Check your answer:**

2.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Check your answer:**

3.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Check your answer:**

4.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Check your answer:**

**Problem Solving using Inequalities:**

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1.)

2.) Geometry: The school band needs a banner to carry in a parade. The banner committee decides that the length of the banner should be 18 feet. What are the possible widths of the banner if they can use no more than 48 feet of trim?

3.) To make a second banner, the committee decided to make the length 12 feet. They have 40 feet of a second type of trim. Write and solve an inequality to find the possible widths of the second trim.

4.) On a trip from Virginia to Florida, the Simpson family wants to travel at least 420 miles in 8 hours of driving. What must be their average rate of speed?