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.

1.) Solve and graph the solution:

**Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Check your answer:**

**Graph:**

2.) Solve and graph the solution:

**Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Check your answer:**

**Graph:**

1.) Pick two numbers and place them in the spaces to make a true statement.

\_\_\_\_\_\_\_\_\_\_ < \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

2.) Pick two numbers and place them in the spaces to make a true statement.

\_\_\_\_\_\_\_\_\_\_ > \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

3.) Pick two numbers and place them in the spaces to make a true statement.

\_\_\_\_\_\_\_\_\_\_ < \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

4.) Pick two numbers and place them in the spaces to make a true statement.

\_\_\_\_\_\_\_\_\_\_ < \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

5.) Pick two numbers and place them in the spaces to make a true statement.

\_\_\_\_\_\_\_\_\_\_ > \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

6.) Pick two numbers and place them in the spaces to make a true statement.

\_\_\_\_\_\_\_\_\_\_ < \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

* The following steps DON’T affect the direction of the inequality:
* The following steps DO affect the direction of the inequality:

Why does \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ each side of an inequality by a negative number make the inequality symbol FLIP?

When solving INEQUALITIES:

1.) Solve this inequality:

**Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

3.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

4.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

5.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

6.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

7.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

8.) **Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**