

Writing and Solving One-Variable Inequalities

Inequalities and Graphing

A solution set to an inequality may be written in inequality notation, _____, or set-builder notation, _____.

Graphing a One-Variable Inequality

Steps to Graph a One-Variable Inequality

Step 1: _____

Step 2: _____

Write Like a Mathematician: Explain the asymmetric property of inequality.

Practice: Complete the practice problem(s) in the space below. Be sure to check your work.

Solving One-Step Inequalities

Follow the same steps used for solving equations by using the _____ operation to isolate the variable.

When solving an inequality, if both sides are multiplied or divided by a _____ number, the inequality symbol must be _____ to its opposite in order to maintain the relationship and determine the correct solution.

Practice: Complete the practice problem(s) in the space below. Be sure to check your work.

Solving Multi-Step Inequalities

A linear inequality uses an inequality symbol to show a comparison involving at least one _____ . This means there isn't just one solution to a linear inequality but a _____ of solutions!

Steps for Solving Multi-Step Inequalities

Step 1: _____

Step 2: _____

Step 3: _____

Practice: Complete the practice problem(s) in the space below. Be sure to check your work.

Writing Inequalities

Common Key Words for Inequalities

>	<	≥	≤

Writing inequalities with fractions involves the same process as integers. Remember to look for _____ and to follow the same process for solving and graphing.

Practice: Complete the practice problem(s) in the space below. Be sure to check your work.

Please use additional paper as needed to complete the Self-Check. You may also choose to print the lesson’s Sum It Up page.