

Solving linear inequalities is similar to solving linear equations.

1. We simplify both sides of the inequality.
 - Clear parentheses
 - Clear fractions or decimals, if any
 - Combine like terms
2. Add or subtract to combine the variable terms on one side of the inequality.
3. Add or subtract to combine the constant terms on the other side of the inequality.
4. Multiply or divide both sides by the coefficient of the variable to get the solution.
REMEMBER: When you multiply or divide both sides by a negative number, switch the direction of the inequality.

Solve the following inequality. Write the solution set using interval notation.