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learn how to solve inequalities by adding subtracting multiplying or dividing both sides find out how to change the direction of the inequality sign and avoid dividing by variables let's explore some different ways to solve equations and inequalities we'll also see what it takes for an equation to have no solution or infinite solutions there are lots of strategies we can use to solve equations learn how to solve inequalities and how to solve inequalities with fractions using this free step by step guide you will work through several examples of how to solve an inequality requiring one or more steps we also cover when you have to reverse an inequality sign solving inequalities is very similar to solving equations except you have to reverse the inequality symbols when you multiply or divide both sides of an inequality by a negative number there are three ways to represent solutions to inequalities an interval a graph and an inequality learn about inequalities using our free math solver with step by step solutions solutions of inequalities algebraic practice khan academy google classroom microsoft teams is 0 1 a solution of $10x + 4y = 4$ choose 1 answer yes a yes no b no learn for free about math art computer programming economics physics chemistry biology medicine finance history and more solving systems of inequalities word problem graphs of systems of inequalities word problem graphs of two variable inequalities word problem inequalities systems graphs faq creativity break what can we do to expand our creative skills 11 years ago colby the equation $y = 5$ is a linear inequality equation let's first talk about the linear equation $y = 5$ if you wrote the linear equation in the form of $y = ax + b$ the equation would be $y = 0x + 5$ when $x = 1$ what is y $y = 5$ and when $x = 2$ what is y $y = 5$ so no matter what x is $y = 5$ to solve an inequality we can add the same number to both sides subtract the same number from both sides multiply both sides by the same positive number divide both sides by the same positive number multiply both sides by the same negative number and reverse the sign divide both sides by the same negative number and reverse the sign free inequality calculator solve linear quadratic and absolute value inequalities step by step inequalities rule 1 when inequalities are linked up you can jump over the middle inequality if $p < q$ and $q < d$ then $p < d$ if $p < q$ and $q > d$ then $p < d$ example if oggy is older than mia and mia is older than cherry then oggy must be older than cherry inequalities rule 2 swapping of numbers p and q results in to solve an inequality use the following steps step 1 eliminate fractions by multiplying all terms by the least common denominator of all fractions step 2 simplify by combining like terms on each side of the inequality step 3 add or subtract quantities to obtain the unknown on one side and the numbers on the other we use these properties to solve inequalities taking the same steps we used to solve equations solving the inequality $x > 5 - 9$ the steps would look like this $x > 5 - 9$ subtract 5 from both sides to isolate x $x > 5 - 9 - 5$ $x > -4$ any number greater than 4 is a solution to this inequality how to solve inequalities like linear equations inequalities can be solved by applying similar rules and steps with a few exceptions the only difference when solving linear equations is an operation that involves multiplication or division by a negative number start not started graphing linear inequalities in two variables learn testing solutions to inequalities intro to graphing two variable inequalities graphing two variable inequalities two variable inequalities from their graphs practice solving problems with inequalities in two variables learn graph gcf lcm new example help tutorial graph an equation inequality or a system example $x + 2 < y + 2$ systems of equations and inequalities in previous chapters we solved equations with one unknown or variable we will now study methods of solving systems of equations consisting of two equations and two variables points on the plane to solve your inequality using the inequality calculator type in your inequality like $x > 7 - 9$ the inequality solver will then show you the steps to help you learn how to solve it on your own less than or equal to type for less than or equal to here is an example $4x + 3 < 23$ greater than or equal to type for greater than or equal to 1 when you solve the inequality you have found all the values that make the inequality be true 2 we flip the inequality when we multiply divide by a negative value because the negative reverses the relationship between the numbers consider $4 < 10$ this is currently a true statement step 1 enter the inequality below which you want to simplify the inequality calculator simplifies the given inequality you will get the final answer in inequality form and interval notation step 2 click the blue arrow to submit choose simplify from the topic selector and click to see the result in our algebra calculator examples simplify testing solutions to inequalities google classroom microsoft teams about transcript inequalities are like puzzles where you compare two things you can solve these puzzles by trying different numbers and seeing which ones make the puzzle true some numbers will work for one puzzle but not for another

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to solve an inequality we can add the same number to both sides subtract the same number from both sides multiply both sides by the same positive number divide both sides by the same positive number multiply both sides by the same negative number and reverse the sign divide both sides by the same negative number and reverse the sign

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to solve an inequality use the following steps step 1 eliminate fractions by multiplying all terms by the least common denominator of all fractions step 2 simplify by combining like terms on each side of the inequality step 3 add or subtract quantities to obtain the unknown on one side and the numbers on the other

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we use these properties to solve inequalities taking the same steps we used to solve equations solving the inequality $x + 5 > 9$ the steps would look like this $x + 5 > 9$ subtract 5 from both sides to isolate x $x + 5 - 5 > 9 - 5$ $x > 4$ any number greater than 4 is a solution to this inequality

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how to solve inequalities like linear equations inequalities can be solved by applying similar rules and steps with a few exceptions the only difference when solving linear equations is an operation that involves multiplication or division by a negative number

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to solve your inequality using the inequality calculator type in your inequality like $x > 7$ the inequality solver will then show you the steps to help you learn how to solve it on your own less than or equal to type for less than or equal to here is an example $4x + 3 \geq 23$ greater than or equal to type for greater than or equal to

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1 when you solve the inequality you have found all the values that make the inequality be true 2 we flip the inequality when we multiply divide by a negative value because the negative reverses the relationship between the numbers consider $4 < 10$ this is currently a true statement

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step 1 enter the inequality below which you want to simplify the inequality calculator simplifies the given inequality you will get the final answer in inequality form and interval notation step 2 click the blue arrow to submit choose simplify from the topic selector and click to see the result in our algebra calculator examples simplify

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