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a compound inequality is an inequality that combines two simple inequalities let's take a look at some examples example with or $x < 3$ or $x < 5$ so for example the numbers 0 and 6 are both solutions of the compound inequality but the number 4 is not a solution example with and $x < 0$ and $x < 4$ when dealing with inequalities anytime we multiply or divide by a negative number we have to flip the sign the reason for that is fairly simple let's say we have the inequality $10 < 25$ if we multiply or divide by a positive number the inequality still holds true $10 < 25$ $2 < 20$ 50 thus we can write the compound inequality $1 < 3$ $2x < 1$ in the form $3 < 2x < 1$ quad text and quad $3 < 2x < 1$ label eq13 solve each inequality independently arranging your work as follows a compound inequality is made up of two inequalities connected by the word and or the word or for example the following are compound inequalities $x < 3$ 4 and $4x < 5$ $3 < 2y < 10$ or $y < 5$ 2 identify solutions for compound inequalities in the form $a < x < b$ including cases with no solution solve absolute value inequalities solve single and multi step inequalities containing absolute values identify cases where there are no solutions to absolute value inequalities a compound inequality is an inequality that merges two inequalities either by using and or or sometimes and won't be specifically mentioned but it is understood for example $1 < x < 3$ is nothing but $x < 1$ and $x < 3$ on the other hand a compound inequality with or is always specifically mentioned using or compound inequalities or algebra video khan academy course algebra 1 unit 2 compound inequalities or google classroom about transcript sal solves the compound inequality $5z < 7$ 27 or $3z < 18$ created by sal khan and monterey institute for technology and education questions tips thanks want to join the conversation log in the solution of an or compound inequality is the set of all $latex\ x\ latex$ that satisfy either of the two inequalities or at times satisfies the two at the same time in other words you want a solution that works on at least one inequality to solve a compound inequality means to find all values of the variable that make the compound inequality a true statement we solve compound inequalities using the same techniques we used to solve linear inequalities we solve each inequality separately and then consider the two solutions introduction many times solutions lie between two quantities rather than continuing endlessly in one direction for example systolic top number blood pressure that is between 120 and 139mm hg is called borderline high blood pressure this can be described using a compound inequality $b < 139$ and $b < 120$ compound inequalities linear inequalities algebra i khan academy youtube fundraiser khan academy 8 29m subscribers subscribed 4 3k 982k views 13 years ago algebra i high sal solves the compound inequality $3y < 7$ $2y$ and $4y < 8$ 48 created by sal khan and monterey institute for technology and education identify solutions for compound inequalities in the form $a < x < b$ $a < x < b$ including cases with no solution solve absolute value inequalities solve single and multi step inequalities containing absolute values identify cases where there are no solutions to absolute value inequalities the solution of a compound inequality that consists of two inequalities joined with the word or is the union of the solutions of each inequality unions allow us to create a new set from two that may or may not have elements in common the following example shows how to solve a one step inequality in the or form how do you solve the compound inequalities to solve compound inequalities solve each inequality separately determine if the answer should be and union of the inequalities or or intersection of the inequalities solving compound inequalities learning outcomes solve compound inequalities or express solutions both graphically and with interval notation solve compound inequalities and express solutions both graphically and with interval notation solve compound inequalities in the form of or example 1 solve for $x\ latex\ hspace{0.5in}\ x < 5$ $0\ latex\ or\ latex\ 3x < 1$ $8\ latex$ show solution remember to apply the properties of inequality when you are solving compound inequalities the next example involves dividing by a negative to isolate a variable example 2 how to solve a compound inequality with and solve each inequality graph each solution then graph the numbers that make both inequalities true this graph shows the solution to the compound inequality write the solution in interval notation double inequality a double inequality is a compound inequality such as $a < x < b$ it is solve compound inequalities in the form of or as we saw in the last section the solution of a compound inequality that consists of two inequalities joined with the word or is the union of the solutions of each inequality unions allow us to create a new set from two that may or may not have elements in common double inequalities compound inequalities video khan academy google classroom about transcript sal solves the double inequality $16 < 3x < 5$ 20 which is the same as the compound inequality $16 < 3x < 5$ and $3x < 5$ 20 created by sal khan and monterey institute for technology and education questions tips thanks want to join the conversation

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a compound inequality is an inequality that combines two simple inequalities let's take a look at some examples example with or $x < 3$ or $x < 5$ so for example the numbers 0 and 6 are both solutions of the compound inequality but the number 4 is not a solution example with and $x < 0$ and $x < 4$

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when dealing with inequalities anytime we multiply or divide by a negative number we have to flip the sign the reason for that is fairly simple let's say we have the inequality $10 < 25$ if we multiply or divide by a positive number the inequality still holds true $10 < 25$ $2 < 20$ 50

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thus we can write the compound inequality $1 < 3 < 2x + 1$ in the form $3 < 2x + 1$ quad text and quad $3 < 2x + 1$ label eq13 solve each inequality independently arranging your work as follows

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a compound inequality is made up of two inequalities connected by the word and or the word or for example the following are compound inequalities $x < 3$ 4 and $4x - 5 < 3$ $2y + 1 < 0$ or $y < 5$ 2

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identify solutions for compound inequalities in the form $a < x < b$ including cases with no solution solve absolute value inequalities solve single and multi step inequalities containing absolute values identify cases where there are no solutions to absolute value inequalities

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a compound inequality is an inequality that merges two inequalities either by using and or or sometimes and won't be specifically mentioned but it is understood for example $1 < x < 3$ is nothing but $x < 1$ and $x < 3$ on the other hand a compound inequality with or is always specifically mentioned using or

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the solution of an or compound inequality is the set of all x that satisfy either of the two inequalities or at times satisfies the two at the same time in other words you want a solution that works on at least one inequality

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to solve a compound inequality means to find all values of the variable that make the compound inequality a true statement we solve compound inequalities using the same techniques we used to solve linear inequalities we solve each inequality separately and then consider the two solutions

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introduction many times solutions lie between two quantities rather than continuing endlessly in one direction for example systolic top number blood pressure that is between 120 and 139mm hg is called borderline high blood pressure this can be described using a compound inequality $b \geq 139$ and $b \leq 120$

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identify solutions for compound inequalities in the form $a < x < b$ or $a > x > b$ including cases with no solution solve absolute value inequalities solve single and multi step inequalities containing absolute values identify cases where there are no solutions to absolute value inequalities

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the solution of a compound inequality that consists of two inequalities joined with the word or is the union of the solutions of each inequality unions allow us to create a new set from two that may or may not have elements in common the following example shows how to solve a one step inequality in the or form

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how do you solve the compound inequalities to solve compound inequalities solve each inequality separately determine if the answer should be and union of the inequalities or or intersection of the inequalities

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solving compound inequalities learning outcomes solve compound inequalities or express solutions both graphically and with interval notation solve compound inequalities and express solutions both graphically and with interval notation solve compound inequalities in the form of or

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example 1 solve for x $5 < x < 10$ or $3 < x < 8$ show solution remember to apply the properties of inequality when you are solving compound inequalities the next example involves dividing by a negative to isolate a variable example 2

8 3 solve compound inequalities union intersection

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how to solve a compound inequality with and solve each inequality graph each solution then graph the numbers that make both inequalities true this graph shows the solution to the compound inequality write the solution in interval notation double inequality a double inequality is a compound inequality such

as $a < b$ it is

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solve compound inequalities in the form of $a < x < b$ or as we saw in the last section the solution of a compound inequality that consists of two inequalities joined with the word or is the union of the solutions of each inequality unions allow us to create a new set from two that may or may not have elements in common

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