Free reading One variable inequality word problems [PDF]

writing inequalities from word problems harder examples these examples involve solving word problems leading to inequalities of the form px q r or px q r where p q and r are specific rational numbers there are also examples where the variable lies between two values inequalities word problems google classroom kwame must earn more than 16 stars per day to get a prize from the classroom treasure box write an inequality that describes s the number of stars kwame must earn per day to get a prize from the classroom treasure box two variable inequalities word problems wang hao wants to spend at most 15 on dairy products each liter of goat milk costs 2 40 and each liter of cow s milk costs 1 20 write an inequality that represents the number of liters of goat milk g and cow s milk c wang hao can buy on his budget it can be solved many way here we will solve it by completing the square move the 7 to the right side of the inequality w2 8w 7 complete the square on the left side of the inequality and balance this by adding the same value to the right side of the inequality w2 8w 16 7 16 simplify w 4 2 9 step 1 identify the variables identify the two variables that will be used in the inequality it s essential to define what each variable represents to avoid any confusion in the problem step 2 determine the inequality symbol determine the inequality symbol that will be used in the problem graphs of two variable inequalities word problem google classroom about transcript given the graph of a two variable linear inequality that models a context about dog biscuits sal finds if the dog can get enough biscuits questions tips thanks improve your math knowledge with free questions in write two variable inequalities word problems and thousands of other math skills once you d learned how to solve one variable linear equations you were then given word problems to solve these problems you d have to figure out a linear equation that modelled the situation and then you d have to solve that equation to find the answer to the word problem mathhelp com solving inequalities step 1 highlight the important information in this problem note at least is a key word that notes that this problem must be written as an inequality step 2 identify your variable solving linear inequalities word problems in two variables a statement involving the symbols is called an inequality by understanding the real situation we have to use two variables to represent each quantities problem 1 katie has 50 in a savings account at the beginning of the summer summary many simple inequalities can be solved by adding subtracting multiplying or dividing both sides until you are left with the variable on its own math explained in easy language plus puzzles games quizzes worksheets and a forum for k 12 kids teachers and parents what are linear inequality word problems linear inequalities are very common in everyday life while a linear equation gives us exactly one value when solved a linear inequality gives us multiple values the table below shows a couple of statements their inequalities and possible solutions a write an inequality to represent the situation be sure to define your variable b solve the inequality to find the maximum cost of each composition book 4 amanda rented a bike from shawna s bikes they charged her 2 per hour plus a 10 fee amanda paid less than 27 a write an inequality to represent the situation in algebra we use inequalities to represent relationships between variables inequalities word problems involve solving real life scenarios using these mathematical expressions they require careful analysis and algebraic manipulation to find solutions in this lesson we will explore strategies for solving inequalities word problems step by step inequalities word problem worksheet date period establish a variable write an inequality to represent the scenerio and solve write a complete sentence to describe your solution 1 keith has 500 in a savings account at the beginning of the summer one variable inequality word problems represent each of the following as an algebraic inequality and solve 1 x is at most 30 2 the sum of 5x and 2x 3 the product of x and 4 5 less than a number is at least 14 y is less than or equal to 4 y is under 20 5 if 5 times a number is increased by 4 the result is at least 19 problem 1 find all pairs of consecutive odd positive integers both of which are smaller than 18 such that their sum is more than 20 solution let x be the smaller of the two consecutive odd positive integers then the other odd integer is x 2 given both the integers are smaller than 18 you don t really solve inequalities inequalities represent a set of allowed values you can test a value and solve for whether it s true or not so you could test for x equal to 7 and solving x 100 for 7 gives 7 100 which is true so 7 is included in the inequality for x one variable inequality table of contents introduction one variable linear inequality definition examples counter examples solution rules examples example 1 example 2 example 3 quadratic inequality of one variable definition solution methods solving a quadratic inequality summary of steps example key points writing inequalities from word problems activity builder by desmos classroom

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two variable inequalities word problems wang hao wants to spend at most 15 on dairy products each liter of goat milk costs 2 40 and each liter of cow s milk costs 1 20 write an inequality that represents the number of liters of goat milk g and cow s milk c wang hao can buy on his budget

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it can be solved many way here we will solve it by completing the square move the 7 to the right side of the inequality w2 8w 7 complete the square on the left side of the inequality and balance this by adding the same value to the right side of the inequality w2 8w 16 7 16 simplify w 4 2 9

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step 1 identify the variables identify the two variables that will be used in the inequality it s essential to define what each variable represents to avoid any confusion in the problem step 2 determine the inequality symbol determine the inequality symbol that will be used in the problem

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once you d learned how to solve one variable linear equations you were then given word problems to solve these problems you d have to figure out a linear equation that modelled the situation and then you d have to solve that equation to find the answer to the word problem mathhelp com solving inequalities

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step 1 highlight the important information in this problem note at least is a key word that notes that this problem must be written as an inequality step 2 identify your variable

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solving linear inequalities word problems in two variables a statement involving the symbols is called an inequality by understanding the real situation we have to use two variables to represent each quantities problem 1 katie has 50 in a savings account at the beginning of the summer

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summary many simple inequalities can be solved by adding subtracting multiplying or dividing both sides until you are left with the variable on its own math explained in easy language plus puzzles games quizzes worksheets and a forum for k 12 kids teachers and parents

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what are linear inequality word problems linear inequalities are very common in everyday life while a linear equation gives us exactly one value when solved a linear inequality gives us multiple values the table below shows a couple of statements their inequalities and possible solutions

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a write an inequality to represent the situation be sure to define your variable b solve the inequality to find the maximum cost of each composition book 4 amanda rented a bike from shawna s bikes they charged her 2 per hour plus a 10 fee amanda paid less than 27 a write an inequality to represent the situation

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in algebra we use inequalities to represent relationships between variables inequalities word problems involve solving real life scenarios using these mathematical expressions they require careful analysis and algebraic manipulation to find solutions in this lesson we will explore strategies for solving inequalities word problems step by step

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one variable inequality word problems represent each of the following as an algebraic inequality and solve 1 x is at most 30 2 the sum of 5x and 2x 3 the product of x and 4 5 less than a number is at least 14 y is less than or equal to 4 y is under 20 5 if 5 times a number is increased by 4 the result is at least 19

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problem 1 find all pairs of consecutive odd positive integers both of which are smaller than 18 such that their sum is more than 20 solution let x be the smaller of the two consecutive odd positive integers then the other odd integer is x 2 given both the integers are smaller than 18

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you don t really solve inequalities inequalities represent a set of allowed values you can test a value and solve for whether it s true or not so you could test for x equal to 7 and solving x 100 for 7 gives 7 100 which is true so 7 is included in the inequality for x

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