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if x is the required no of liters of the 30 alcohol solution the problem translates as follows 30 of x amount of alcohol in x liters of 30 solution 50 of 60 amount of alcohol in 60 liters of 50 solution 40 of x 60 the amount of alcohol should be 40 of the new volume which is x 60 equations with one variable that are linear equation have 3 possible solution scenarios 1 the variable has one solution 2 the equation is a contradiction always false so it has no solutions 3 the equation is an identity always true so the variable has a solution set of all real numbers solution is x 1 x 1 a solution to x 1 2 $3x$ 1 x 1 2 $3x$ 1 solution here is a set of practice problems to accompany the solutions and solution sets section of the solving equations and inequalities chapter of the notes for paul dawkins algebra course at lamar university mixture problems involve combining two or more things and determining some characteristic of either the ingredients or the resulting mixture for example we might want to know how much water to add to dilute a saline solution or we might want to determine the percentage of concentrate in a jug of orange juice let s review the idea of number of solutions to equations real quick basically an equation can have exactly one solution like $2x = 6$ it solves as $x = 3$ no other options no solutions like $x = 6 = x = 9$ this would simplify to $6 = 9$ which is ummm not true so no solutions infinitely many solutions such as $3x = 3x$ this simplifies quickmath will automatically answer the most common problems in algebra equations and calculus faced by high school and college students the algebra section allows you to expand factor or simplify virtually any expression you choose problem solving is a mental process that involves discovering analyzing and solving problems the ultimate goal of problem solving is to overcome obstacles and find a solution that best resolves the issue the best strategy for solving a problem depends largely on the unique situation problem solving is the act of defining a problem determining the cause of the problem identifying prioritizing and selecting alternatives for a solution and implementing a solution the problem solving process problem solving resources problem solving chart online math solver with free step by step solutions to algebra calculus and other math problems get help on the web or with our math app answer f click here to see a video of the solution problem 6 1 1 4 6 1 1 4 determine the molarity of each of the following solutions 1 457 mol kcl in 1 500 l of solution 0 515 g of h₂ so 4 in 1 00 l of solution 20 54 g of al no 3 3 in 1575 ml of solution 2 76 kg of cuso 4 5h 2 o in 1 45 l of solution start unit test there are lots of strategies we can use to solve equations let 39 s explore some different ways to solve equations and inequalities we 39 ll also see what it takes for an equation to have no solution or infinite solutions free math problem solver answers your algebra homework questions with step by step explanations mixture problems with solutions mixture problems and their solutions percentages are also used to solve these types of problems problem 1 how many liters of 20 alcohol solution should be added to 40 liters of a 50 alcohol solution to make a 30 solution learn for free about math art computer programming economics physics chemistry biology medicine finance history and more khan academy is a nonprofit with the mission of providing a free world class education for anyone anywhere problems for 5th grade multi digit multiplication dividing completely writing expressions rounding whole numbers inequalities on a number line linear equation and inequality word problems linear equation word problems linear equation word problems about percents if you need to do this go to the brush up materials for solving percent problems on the dolciani website 1 solution problems basic equation amount of solution u concentration of substance amount of substance example 40 ounces amount of solution of a 25 solution of acid concentration contains 25 40 10 ounces of acid get math help in your language works in spanish hindi german and more online math solver with free step by step solutions to algebra calculus and other math problems get help on the web or with our math app

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