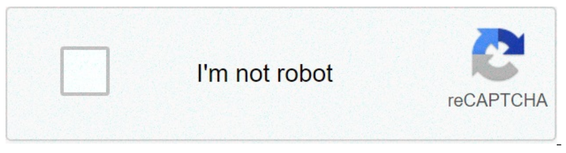

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Writing linear equations worksheet word problems

Kuta Software Ã, Â © 2021 Kuta Software. All rights reserved. MathWorksheesgo.com Now it's a part of Mathwarehouse.com. All your worksheets are now here on Mathwarehouse.com. Please update your bookmarks! Students will practice the word linear equation problems. Error: Click on "It's not a robot", then try downloading again. It is a worksheet 4 part: Part I Model Problems Part II Part III Practice Challenge Problems Part IV Reply Key Error: Please click on "It's not a robot", then try downloading again. Some word problems require the use of systems of linear equations. Here are clues to know when a word problem requires you to write a system of linear equations: (i) there are two different magnitudes involved: for example, the number of adults and number of children, the number of large boxes and the number of small boxes, etc. (ii) one else has a value associated with each amount: for example, the price of an adult ticket or a ticket for the children, or the number of items in a large box as opposed to a small box. These problems often require you to write two linear equations in two variables. Generally, an equation will cover the number of quantities (persons or boxes), and the other equation will cover the value (price of tickets or number of items in the boxes). Here are some steps to follow: 1. Understand the problem. Understand all the words used in stating the problem. Understand what you are asked to find. Familiarize the situation problem. 2. Translating the problem into an equation. Assign a variable (or variables) to represent the unknown. Clearly determine which variable represents. 3. Run the program and correct the problem. Using substitution, deletion, or method to solve the problem graphically. Example: The cost of admission to a concert of popular music was $ 162 for 12 children and 3 adults. Admission was $ 122: 8 children and 3 adults in another music concert. As has been the admission of any child and adult? 1. Understand the problem: the cost of admission for 12 children and 3 adults was $ 162. The cost of admission for 8 children and 3 adults was $ 122. 2. Translating the problem into an equation. Let X represent the cost of admission for each child. Let y represent the cost of admission for each adult. The cost of admission for 12 adults plus 3 is equal to $ 162. That is, 12 x 3 + y = 162. The cost of admission for 8 adults plus 3 is equal to $ 122. That is, 8 x + y 3 = 122. 3. Run the program and solve the problem. Subtracting the second equation from the first. 12 x + y = 3162 Ã Ã 8 x + y = 3122 _ aa 4 xaa Ã ¢ Ã ¢ aa A = 40 A aaaaaaa Ã ¢ Ã ¢ x = 10 to x 10 reserves in 8 x + y = 3 122. 8 (10) + 3 y = 122 + 80 = 122 3 y 3 y = 42 y = 14 Therefore, the cost of entry for each child is $ 10 and each adult is $ 14.
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