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Algebra problems With Solutions. Example 1: Solve, $(x-1)^2 = [4\sqrt{(x-4)}]^2$ Solution: $x^2 - 2x + 1 = 16(x-4)$ $x^2 - 2x + 1 = 16x - 64$. $x^2 - 18x + 65 = 0$ $(x-13)(x-5) = 0$. Hence, $x = 13$ and $x = 5$. Algebra Problems for Class 6. In class 6, students will be introduced with an algebra concept. Here, you will learn how the unknown values are represented in terms of variables.

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Solution If L and W be the original length and width of the rectangle and its area is given by $L \times W$ After increase the length becomes $2L$ and the width becomes $3W$. The area is then given by $(2L) \times (3W)$ and is known. Hence $(2L) \times (3W) = 1800$ Solve the above equation to find $L \times W$ $6L \times W = 1800$

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[How to solve Algebra Word Problems? \(solutions, examples ...](#)

Math Word Problems and Solutions - Distance, Speed, Time. Problem 1 A salesman sold twice as much pears in the afternoon than in the morning. If he sold 360 kilograms of pears that day, how many kilograms did he sell in the morning and how many in the afternoon?

[Math Word Problems and Solutions - Distance, Speed, Time](#)

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Below are more complicated algebra word problems Example #6: The ratio of two numbers is 5 to 1. The sum is 18. What are the two numbers? Solution Let x be the first number. Let y be the second number $x / y = 5 / 1$ $x + y = 18$ Using $x / y = 5 / 1$, we get $x = 5y$ after doing cross multiplication Replacing $x = 5y$ into $x + y = 18$, we get $5y + y = 18$ $6y = 18$ $y = 3$

Algebra Word Problems - Basic Mathematics

Find below a wide variety of hard word problems in algebra. Most tricky and tough algebra word problems are covered here. If you can solve these, you can probably solve any algebra problems. Teachers! Feel free to select from this list and give them to your students to see if they have mastered how to solve tough algebra problems.

100 Hard Word Problems in Algebra - Basic Mathematics

$x + y = 548$ ----- (1) Given : Cost of each adult ticket is \$10 and kid ticket is \$5 and tickets were sold for a total of \$3750. So, we have. $10x + 5y = 3750$. $2x + y = 750$ ----- (2) Solving (1) & (2), we get. $x = 202$ and $y = 346$. So, the number of adults tickets sold is 202 and kids tickets is 346.

Algebra Word Problems Worksheet with Answers

Solution. In this problem, we are asked to find two numbers. Therefore, we must let x be one of them. Let x , then, be the first number. We are told that the other number is 12 more, $x + 12$. The problem states that their sum is 84: $x + 12 = 84$. The line over $x + 12$ is a grouping symbol called a vinculum.

Word problems - A complete course in algebra

Multiplication, or $x \times y$. Example: if you drive 50 miles per hour, how many miles will you drive in 5 hours: 250 miles. y increased by $x\%$. $y + \left(\frac{x}{100} \right) y$ decreased by $x\%$. $y - \left(\frac{x}{100} \right) y$ is at least (or no less than) x .

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Grade 9 Algebra Word Problems - Age Example 1: A mother is three times as old as her daughter. Six years ago, the mother's age was six times that of her daughter. How old are they now? Solution: Let x represent the daughter's age. Therefore, $3x$ is the mother's age. $6(x - 6) = 3x - 6$ $6x - 6 = 3x - 6$ $3x = 30$ $x = 10$

Grade 9 Algebra Word Problems (examples, solutions, videos)

Solving algebraic word problems requires us to combine our ability to create equations and solve them. To solve an algebraic word problem: Define a variable. Write an equation using the variable. Solve the equation. If the variable is not the answer to the word problem, use the variable to calculate the answer.

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Solution If L and W be the original length and width of the rectangle and its area is given by $L \times W$ After increase the length becomes $2L$ and the width becomes $3W$. The area is then given by $(2L) \times (3W)$ and is known. Hence $(2L) \times (3W) = 1800$ Solve the above equation to find $L \times W$ $6L \times W = 1800$

Math Word Problems with Solutions and Explanations - Grade 8

Solve this equation by simplifying it step by step: (after brackets opening at the right side) (after moving variable terms to the right and constant terms to the left) (after combining like terms) Thus you got that Ann's present age is years. Check. If Ann's present age is 5 years, then Betty is years old now.

Lesson Age problems and their solutions - Algebra

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How to Solve Word Problems in Algebra (with Pictures ...

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