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PDF Algebra  
Word Problems  
Solutions

# Algebra Word Problems Solutions

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☐☐ Solving word  
problems in Algebra  
(math test)☐☐ Solving  
~~Word Problems in~~

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PDF Algebra

~~Algebra : 4 Videos  
in 1 Lesson dealing  
with Translation of  
Expressions~~

---

Using Algebra to  
Solve Word Problems  
Algebra Word  
Problems Into  
Equations - Basic  
Introduction

---

Solving Word  
Problems Using  
Algebra ~~Using Algebra  
To Solve Word~~

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Problems Beginning

Algebra \u0026 Word

Problem Steps How

to write algebraic

expressions from

word problems | 6th

grade | Khan

Academy How to

solve a word problem

with systems of

equations Father and

Son Age Word

Problem with two

variables Linear

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System Word Problems

Age Word Problems  
In Algebra - Past,  
Present, Future

Algebra - Solving  
Word Problems with  
Two Variables (2 of 5)

Algebra Shortcut Trick  
- how to solve  
equations instantly

Solving Word  
Problems (Simplifying  
Math) ~~Systems of~~

~~Equations Word Probl~~

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~~ems-Money-Coins-~~

~~Nickels-Dimes~~ How

To Convert Word

Problems Into An

Equation ~~Systems of~~

~~Equations Word~~

~~Problems How To~~

~~Interpret Hard Word~~

~~Problems In Algebra~~

Beginning Algebra

\u0026 Rate Time

Distance Problems

Algebra Basics:

Solving 2-Step

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Equations - Math

Antics Percentage

Trick - Solve

percentages mentally

- percentages made

easy with the cool

math trick!

---

Solving Word

Problem Using

Equations

---

Algebra □ Solving

Equations (word

problem) ~~Easy algebra~~

~~word problem - But~~



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~~can you solve it?~~

[SAT Math] How To

Solve ANY Word

Problems With ONE

SIMPLE TRICK! -

Raise Your SAT

SCORE! Systems of

Linear Equations

(Word Problems)

~~Solve Algebra Word~~

~~Problems~~ How to

Solve Algebra Word

Problems: Work Math

for Business and

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Applications chapter 1

dissect and solve

word problems Word

Problem Solving 3

Algebra Word

Problems Solutions

Many students find solving algebra word problems difficult. The

best way to approach word problems is to

“divide and conquer”.

Break the problem down into smaller bits

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Word Problems  
Solutions

and solve each bit at a time. First, we need to translate the word problem into equation (s) with variables.

Then, we need to solve the equation (s) to find the solution (s) to the word problems.

How to solve Algebra  
Word Problems?  
(solutions, examples

...

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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?

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Word Problems

Math Word Problems  
and Solutions -

Distance, Speed,  
Time

Math Word Problems.

Get help with your  
Math Word Problems  
homework. Access  
the answers to

hundreds of Math  
Word Problems

questions that are  
explained in a way

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Word Problems  
Solutions  
that's easy for you to understand.

Math Word Problems  
Questions and

Answers | Study.com

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

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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

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Word Problems

Solutions  
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



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Word Problems  
Solutions

have mastered how to solve tough algebra problems.

100 Hard Word Problems in Algebra - Basic Mathematics

$$x + y = 548 \text{ ----- (1)}$$

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.  $10x + 5y =$

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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

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Word Problems

Solutions  
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:  $= 84$ .

The line over  $x + 12$  is  
a grouping symbol  
called a vinculum.

Word problems - A

*Page 19/37*

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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  $x\%$ .

$$y + \left( y \times \frac{x}{100} \right)$$

decreased by  $x\%$ .

$$y - \left( y \times \frac{x}{100} \right)$$

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$\left\{y \times \frac{x}{100}\right\}$  (right)  $y$  is at least (or no less than)  $x$ .

Algebra Word  
Problems - She Loves  
Math

You will need to get assistance from your school if you are having problems entering the answers into your online

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assignment. Phone

support is available

Monday-Friday,

9:00AM-10:00PM ET.

You may speak with a

member of our

customer support

team by calling

1-800-876-1799.

Mathway | Algebra

Problem Solver

Grade 9 Algebra

Word Problems - Age

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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.  $6(x - 6)$   
 $= 3x - 6$   $6x - 6 = 3x - 6$   
 $3x = 30$   $x = 10$

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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



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PDF Algebra

Word Problems

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.

Algebraic word  
problems | Lesson  
(article) | Khan  
Academy

Solution If L and W be

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PDF Algebra

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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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)

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PDF Algebra

Word Problems

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

Algebra problems

With Solutions.

Example 1: Solve,

$$(x-1)^2 = [4(x-4)]^2$$

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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

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Algebra Problems  
With Solutions | For  
Class 6, 7 And 8  
A common setback  
when trying to solve  
algebra word  
problems is assuming  
what the question is  
asking before you  
read the entire  
problem. In order to  
be successful in

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Solving a Word Problems

problem, you need to read the whole

problem in order to

assess what

information is

provided, and what

information is missing.

2 Determine what you are asked to find.

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

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Grade 6 math word  
problem worksheets  
with answers -

Estimation word  
problems for 6th

Grade are made of  
the following Math  
skills for kids:

estimate to solve  
word problems, multi  
steps word problems,  
identifying word  
problems with extra or  
missing information,



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distance direction to  
starting point word  
problems, using  
logical reasoning to  
find the order, guest  
and check word  
problems. All these  
exercises have been  
created to generate  
interest and  
eagerness for more  
math word problems  
operations.

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Grade 6 Math Word  
Problem Worksheets  
with Answers ...

CHALLENGING

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Algebra word  
problems that use  
standard math  
vocabulary to  
describe relationships  
between numbers in  
addition and  
subtraction problems.

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Great for basic pre-algebra thinking skills, even before your grade school student starts algebra! Add and Subtract Pre-Algebra Multiply and Divide Pre-Algebra

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*Page 36/37*

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