

# Algebra Word Problem

## Distance Word Problem (Same Direction)

A car leaves a city traveling at 50 km/h. Two hours later, another car leaves the same city traveling at 70 km/h in the same direction. How long will it take for the second car to catch up to the first car?

**Solution:**

**Define the variables:**

Let  $t$  = time taken for the second car to catch up (in hours).

The time taken for the first car would be  $t + 2$  since it has a 2-hour head start.

**Set up the table & equation:**

Formula: Distance = Rate x Time

	Rate (km/h)	Time (h)	Distance (km)
First Car	50	$t + 2$	$50(t + 2)$
Second Car	70	$t$	$70t$

When the second car catches up to the first car, both their distances are equal:  $70t = 50(t+2)$

**Solve the equation:**

$$70t = 50(t + 2)$$

$$70t = 50t + 100$$

$$20t = 100$$

$$t = 5$$

**Answer:**

The second car will catch up to the first car after 5 hours.

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# Distance Problems In Algebra With Solutions

**SA Dillow**



## **Distance Problems In Algebra With Solutions:**

*Algebra and Trigonometry* Cynthia Y. Young, 2017-01-09 Cynthia Young's *Algebra Trigonometry Fourth Edition* will allow students to take the guesswork out of studying by providing them with a clear roadmap what to do how to do it and whether they did it right while seamlessly integrating to Young's learning content *Algebra Trigonometry Fourth Edition* is written in a clear single voice that speaks to students and mirrors how instructors communicate in lecture Young's hallmark pedagogy enables students to become independent successful learners Varied exercise types and modeling projects keep the learning fresh and motivating *Algebra Trigonometry 4e* continues Young's tradition of fostering a love for succeeding in mathematics

[The American Mathematical Monthly](#), 1917 Includes section Recent publications **Mathematical Reasoning** Lyn D. English, 2013-04-03 How we reason with mathematical ideas continues to be a fascinating and challenging topic of research particularly with the rapid and diverse developments in the field of cognitive science that have taken place in recent years Because it draws on multiple disciplines including psychology philosophy computer science linguistics and anthropology cognitive science provides rich scope for addressing issues that are at the core of mathematical learning Drawing upon the interdisciplinary nature of cognitive science this book presents a broadened perspective on mathematics and mathematical reasoning It represents a move away from the traditional notion of reasoning as abstract and disembodied to the contemporary view that it is embodied and imaginative From this perspective mathematical reasoning involves reasoning with structures that emerge from our bodily experiences as we interact with the environment these structures extend beyond finitary propositional representations Mathematical reasoning is imaginative in the sense that it utilizes a number of powerful illuminating devices that structure these concrete experiences and transform them into models for abstract thought These thinking tools analogy metaphor metonymy and imagery play an important role in mathematical reasoning as the chapters in this book demonstrate yet their potential for enhancing learning in the domain has received little recognition This book is an attempt to fill this void Drawing upon backgrounds in mathematics education educational psychology philosophy linguistics and cognitive science the chapter authors provide a rich and comprehensive analysis of mathematical reasoning New and exciting perspectives are presented on the nature of mathematics e.g. mind based mathematics on the array of powerful cognitive tools for reasoning e.g. analogy and metaphor and on the different ways these tools can facilitate mathematical reasoning Examples are drawn from the reasoning of the preschool child to that of the adult learner **Directory of**

**Distance Learning Opportunities** Modoc Press, Inc., 2003-02-28 This book provides an overview of current K-12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6,000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the

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INSTRUCTION., Virginia. State Board of Education, 1918     *Analytic Geometry* Isaac Albert Barnett, 1928     **Plane Analytic Geometry** Isaac Albert Barnett, 1926     **Journal of Education** , 1904     The Journal of Education , 1904  
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**High Points in the Work of the High Schools of New York City** New York (N.Y.). Board of Education, 1929  
**Merriam-Webster's Pocket Guide to Business and Everyday Math** Brian Burrell, 1996 Quick help with math questions Take along format fits easily into a briefcase schoolbag or pocket Helps with common problems including bookkeeping investing ratios statistics and household math Provides easy to apply solutions Includes tables and formulas  
**Reader's Guide to Periodical Literature Supplement** , 1921 These vols contain the same material as the early vols of Social sciences humanities index     **Contributions to Education** , 1929     **Encyclopaedia of Mathematics** Michiel Hazewinkel, 2012-12-06 This is the second supplementary volume to Kluwer s highly acclaimed eleven volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing eleven volumes and together these twelve volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available

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