

# What is Problem-Solving?

## Problem Solving

### Read and Think



Understand



### Choose a Strategy

Visual	Numbers
	0 3 6 9



Plan

### Solve the Problem

$$3 + 3 + 3 = 9$$

Do

### Explain Your Work

"I made three hops of 3 on the number line."

## Problem Solving

Understand

- Read, Visualize, and Think
- Identify Wanted, Given, and Needed Information
- Restate the Problem

### Choose a Strategy

- Work Backwards
- Look For a Pattern
- Create a Table or Organized List
- Guess and Check
- Solve a Simpler Problem



Plan

### Solve the Problem

$$385 - 137 = p$$

Do

- Does my solution make sense?
- Is my solution reasonable?
- Can I solve it another way?

FREE RESOURCE

# Greenfaulds Math Problem Solving

**Martin J. Erickson, Joe Flowers**

## Greenfaulds Math Problem Solving:

**Math Problem Solving** Steck-Vaughn Company,1998-09-01    [Make it Simpler](#) Carol Meyer,Tom Sallee,1983 Over fifty math problems presented in three levels of difficulty An innovative approach that takes less than 15 minutes a day to apply and can be used in any mathematics program

**Conceptual Model-Based Problem Solving** Yan Ping Xin,2013-02-11 Are you having trouble in finding Tier II intervention materials for elementary students who are struggling in math Are you hungry for effective instructional strategies that will address students conceptual gap in additive and multiplicative math problem solving Are you searching for a powerful and generalizable problem solving approach that will help those who are left behind in meeting the Common Core State Standards for Mathematics CCSSM If so this book is the answer for you The conceptual model based problem solving COMPS program emphasizes mathematical modeling and algebraic representation of mathematical relations in equations which are in line with the new Common Core Through building most fundamental concepts pertinent to additive and multiplicative reasoning and making the connection between concrete and abstract modeling students were prepared to go above and beyond concrete level of operation and be able to use mathematical models to solve more complex real world problems As the connection is made between the concrete model or students existing knowledge scheme and the symbolic mathematical algorithm the abstract mathematical models are no longer alien to the students As Ms Karen Combs Director of Elementary Education of Lafayette School Corporation in Indiana testified It really worked with our kids One hallmark of mathematical understanding is the ability to justify why a particular mathematical statement is true or where a mathematical rule comes from <http://illustrativemathematics.org/standards> Through making connections between mathematical ideas the COMPS program makes explicit the reasoning behind math which has the potential to promote a powerful transfer of knowledge by applying the learned conception to solve other problems in new contexts Dr Yan Ping Xin s book contains essential tools for teachers to help students with learning disabilities or difficulties close the gap in mathematics wordproblem solving I have witnessed many struggling students use these strategies to solve word problems and gain confidence as learners of mathematics This book is a valuable resource for general and special education teachers of mathematics Casey Hord PhD University of Cincinnati

*Understanding Mathematics Through Problem Solving* Alfred S Posamentier,Peter Poole,2020-03-23 This book will present a collection of mathematical problems lighthearted in nature intended to entertain the general readership Problems will be selected largely for the unusual and unexpected solutions to which they lend themselves Some interesting contents included All in all the book is meant to entertain the general readership and to convince them about the power and beauty of mathematics

*Real-Life Math Problem Solving* Mark Illingworth,1996 Offers a variety of complex everyday math problems with answers and explanations    [Math ProblemSolving Workbook Book 1](#) Morey,2007-01-01 Students are introduced to a strategy and then guided through a scaffolding approach to eventual mastery The activities are divided into seven strategybased sections

guess and check draw a diagram logical reasoning make a list find a pattern work backwards and solve an easier version

**Creative Problem Solving in School Mathematics** George Lenchner,1983-09-01 *Strategies for Success* Triumph Learning, LLC.,OPTIONS for Population Policy (Project),2011-01-12 Got a word problem Strategize it The No 1 issue math students struggle with is solving word problems Math Problem Solving provides a solution Each lesson teaches a key problem solving strategy by breaking it down into manageable steps and then providing guided and independent practice to reinforce the learning Plus it aligns with your core math program and meets the problem solving requirements of the Common Core State Standards

**Funtastic Math!** Martin Lee,Marcia Miller,1998-06 Rev up problem solving and logic lessons with more than 30 creative activities for the classroom Games puzzles real life problems and more bring a new dimension of fun to these important math concepts *Strategies for Success* Triumph Learning, LLC.,OPTIONS for Population Policy

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Problem Solving Strategies for Elementary-School Math Kiana Avestimehr,Salman Avestimehr,2020-06-24 This book teaches 7 basic problem solving strategies that can be used by elementary students to overcome the challenge of how to start thinking about a math problem It contains more than 100 challenging problems that are suitable for elementary school students along with their step by step solution to help the reader master these strategies

*Principles of Mathematical Problem Solving* Martin J. Erickson,Joe Flowers,1999 For introductory undergraduate courses in mathematics and problem solving students preparing for such academic contests as the William Lowell Putnam Mathematical Competition and advanced high school students studying for the American Mathematical Olympiad This book presents the principles and specific problem solving methods that can be used to solve a variety of mathematical problems The book provides clear examples of various problem solving methods accompanied by numerous exercises and their solutions

**The Art and Craft of Problem Solving** Paul Zeitz,2016-12-01 Appealing to everyone from college level majors to independent learners The Art and Craft of Problem Solving 3rd Edition introduces a problem solving approach to mathematics as opposed to the traditional exercises approach The goal of The Art and Craft of Problem Solving is to develop strong problem solving skills which it achieves by encouraging students to do math rather than just study it Paul Zeitz draws upon his experience as a coach for the international mathematics Olympiad to give students an enhanced sense of mathematics and the ability to investigate and solve problems

Strategies for Success Triumph Learning LLC,2011-01-12 Got a word problem Strategize it The No 1 issue math students struggle with is solving word problems Math Problem Solving provides a solution Each lesson teaches a key problem solving strategy by breaking it down into manageable steps and then providing guided and independent practice to reinforce the

learning Plus it aligns with your core math program and meets the problem solving requirements of the Common Core State Standards **Real-World Math Problem Solving (Gr. 5)** Tracie Heskett,2016 Build problem solving skills with this unique series that uses fiction and nonfiction text to present mathematical problems and situations Students are required to read the passages then use critical thinking to complete each task Each unit includes a sidebar with tips tools and strategies students can use in the problem solving process Extension activities are also provided to give them the opportunity to reflect on the passages and discuss their answers Correlated to ELA Math Correlated to the Common Core State Standards

**Strategies for Success** Triumph Learning LLC,2011-01-12 Got a word problem Strategize it The No 1 issue math students struggle with is solving word problems Math Problem Solving provides a solution Each lesson teaches a key problem solving strategy by breaking it down into manageable steps and then providing guided and independent practice to reinforce the learning Plus it aligns with your core math program and meets the problem solving requirements of the Common Core State Standards **Problem Solving ... a Basic Mathematics Goal** Steven P. Meiring,1981 [Math ProblemSolving Workbook Book 3](#) Morey,2007-01-01 Students are introduced to a strategy and then guided through a scaffolding approach to eventual mastery The activities are divided into seven strategybased sections guess and check draw a diagram logical reasoning make a list find a pattern work backwards and solve an easier version **Strategies for Success** Triumph Learning, LLC.,OPTIONS for Population Policy (Project),2011-01-12 The comprehensive Teacher s Guide provides step by step support for every lesson and follows a proven instructional technique You ll get modeled instruction guided and scaffolded practice and independent practice All this and more equips students with confidence while building strategic problem solvers This in depth resource models the problem solving process with Strategic Teaching Differentiated Instruction in each unit provides customized options for meeting individual student needs Professional Development includes how to read word problems effectively ways to use math conversation and questioning techniques pacing and more The ability to solve word problems is the key to math success Use this flexible guide in a whole class setting with small groups and for extended day programs **Strategies for Success** Triumph Learning, LLC.,2011-01-12 Got a word problem Strategize it The No 1 issue math students struggle with is solving word problems Math Problem Solving provides a solution Each lesson teaches a key problem solving strategy by breaking it down into manageable steps and then providing guided and independent practice to reinforce the learning Plus it aligns with your core math program and meets the problem solving requirements of the Common Core State Standards

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