

# What is Problem-Solving?

## PROBLEM SOLVING

Understand

Read  
and  
Think



Plan



Choose a  
Strategy

Problem	Strategy



Do

Solve the Problem

$$3 + 3 + 3 = 9$$

Check

Does it make sense?

*My solution makes sense  
because...*

## PROBLEM SOLVING

Understand

- Read, visualize, and think
- Identify the meaning of the numbers
- Restate the problem

Plan

Choose a Strategy

- Work backwards
- Look for a pattern
- Create a table or organized list
- Draw and Check
- Take a Simpler Problem



Do

Solve the Problem

$$385 - 137 = p$$

Check

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

FREE RESOURCE

# Mathematical Problem Solving

**Tracie Heskett**



## **Mathematical Problem Solving:**

*Mathematical Problem Solving* ALAN H. SCHOENFELD, 2014-06-28 This book is addressed to people with research interests in the nature of mathematical thinking at any level to people with an interest in higher order thinking skills in any domain and to all mathematics teachers The focal point of the book is a framework for the analysis of complex problem solving behavior That framework is presented in Part One which consists of Chapters 1 through 5 It describes four qualitatively different aspects of complex intellectual activity cognitive resources the body of facts and procedures at one's disposal heuristics rules of thumb for making progress in difficult situations control having to do with the efficiency with which individuals utilize the knowledge at their disposal and belief systems one's perspectives regarding the nature of a discipline and how one goes about working in it Part Two of the book consisting of Chapters 6 through 10 presents a series of empirical studies that flesh out the analytical framework These studies document the ways that competent problem solvers make the most of the knowledge at their disposal They include observations of students indicating some typical roadblocks to success Data taken from students before and after a series of intensive problem solving courses document the kinds of learning that can result from carefully designed instruction Finally observations made in typical high school classrooms serve to indicate some of the sources of students' often counterproductive mathematical behavior

**Mathematical Problem Solving** Berinderjeet Kaur, 2009 This book is the first in the series of the yearbooks of the Association of Mathematics Educators in Singapore It is highly unique as it addresses a focused theme of mathematics education The chapters of the book illustrate the immense diversity within the theme and presents research that translates into classroom pedagogies The chapters of the book illustrate how mathematical problems may be crafted and infused in classroom teaching Several novel pedagogies such as learning mathematics through productive failure problem posing and generative activities are presented in the book The chapters are comprehensive and laden with evidence based examples for both mathematics educators and classroom teachers of mathematics The book is an invaluable contribution towards the already established field of research of mathematical problem solving It is also a must read for graduate research students and mathematics educators

**Fostering and Sustaining Mathematics Thinking Through Problem Solving** John Mason, Joy Davis, 1991 Prepared for courses ECT405 ECT705 offered by the Faculty of Education in Deakin University's Open Campus Program

**The Teaching and Assessing of Mathematical Problem Solving** National Council of Teachers of Mathematics, 1988

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

**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 word problem 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

**Mathematical Problem Solving** Peter Liljedahl, Manuel Santos-Trigo, 2019-02-12

This book contributes to the field of mathematical problem solving by exploring current themes trends and research perspectives It does so by addressing five broad and related dimensions problem solving heuristics problem solving and technology inquiry and problem posing in mathematics education assessment of and through problem solving and the problem solving environment Mathematical problem solving has long been recognized as an important aspect of mathematics teaching mathematics and learning mathematics It has influenced mathematics curricula around the world with calls for the teaching of problem solving as well as the teaching of mathematics through problem solving And as such it has been of interest to mathematics education researchers for as long as the field has existed Research in this area has generally aimed at understanding and relating the processes involved in solving problems to students development of mathematical knowledge and problem solving skills The accumulated knowledge and field developments have included conceptual frameworks for characterizing learners success in problem solving activities cognitive metacognitive social and affective analysis curriculum proposals and ways to promote problem solving approaches

**Mathematical Thinking and Problem**

**Solving** Alan H. Schoenfeld, Alan H. Sloane, 2016-05-06 In the early 1980s there was virtually no serious communication among the various groups that contribute to mathematics education: mathematicians, mathematics educators, classroom teachers, and cognitive scientists. Members of these groups came from different traditions, had different perspectives, and rarely gathered in the same place to discuss issues of common interest. Part of the problem was that there was no common ground for the discussions given the disparate traditions and perspectives. As one way of addressing this problem, the Sloan Foundation funded two conferences in the mid 1980s bringing together members of the different communities in a ground-clearing effort designed to establish a base for communication. In those conferences, interdisciplinary teams reviewed major topic areas and put together distillations of what was known about them. A more recent conference, upon which this volume is based, offered a forum in which various people involved in education reform would present their work and members of the broad communities gathered would comment on it. The focus was primarily on college mathematics informed by developments in K-12 mathematics. The main issues of the conference were mathematical thinking and problem solving.

Mathematical Problem Solving Frank K. Lester, Joe Garofalo, 1982 This set of papers was originally developed for a conference on Issues and Directions in Mathematics Problem Solving Research held at Indiana University in May 1981. The purpose is to contribute to the clear formulation of the key issues in mathematical problem solving research by presenting the ideas of actively involved researchers. An introduction provides an overview of each paper. The papers focus on the psychology of mathematical problem solving, R. E. Mayer, knowledge organization, E. A. Silver, implications from information processing psychology, D. J. Briars, building bridges between psychological and mathematics education research, F. K. Lester Jr, measuring problem solving outcomes, G. A. Goldin, a model for elementary teacher training in problem solving, J. F. LeBlanc, applied problem solving, R. Lesh and M. Akerstrom, a concept learning perspective, R. J. Shumway, and a statement of issues. H. L. Schoen MNS

**Teaching Mathematical Problem Solving** Jason Frand, 2018-10 A PICO or any teacher's guide to preparing his/her students for the rigors of high-level problem solving by using techniques developed by the author in his own classroom.

**The Art and Craft of Problem Solving** Paul Zeitz, 1999-02-23 This text blends interesting problems with strategies, tools, and techniques to develop the mathematical skill and intuition necessary for problem solving.

**Problem-Solving Strategies** Arthur Engel, 1999-05-11 A unique collection of competition problems from over twenty major national and international mathematical competitions for high school students. Written for trainers and participants of contests of all levels up to the highest level, this will appeal to high school teachers conducting a mathematics club who need a range of simple to complex problems and to those instructors wishing to pose a problem of the week, thus bringing a creative atmosphere into the classrooms. Equally, this is a must-have for individuals interested in solving difficult and challenging problems. Each chapter starts with typical examples illustrating the central concepts and is followed by a number of carefully selected problems and their solutions. Most of the solutions are complete, but some merely point to the road.

leading to the final solution In addition to being a valuable resource of mathematical problems and solution strategies this is the most complete training book on the market Real-World Math Problem Solving (Gr. 2) 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 **No Problem!** Jean McCall, Joan Vydra, 2005-01-01 Introduces students to eight problem solving techniques used to solve mathematical problems

**Problem Solving in Mathematics Education** Torsten Fritzlar, Daiela Assmus, Kerstin Bräuning, Ana Kuzle, Benjamin Rott, 2016-06-30 From 3rd to 5th of September 2015 the 17th international ProMath conference Problem Solving in Mathematics Education took place at the Faculty of Education of the Martin Luther University Halle Wittenberg Germany For the first time it was combined with the annual meeting of the working group Problem Solving of the Society of Didactics of Mathematics This book contains 20 peer reviewed articles of researchers from five European countries The topics of the papers evolved around different areas of learning and problem solving There are some theoretical papers on problem oriented mathematics instruction and specific aspects of problem solving and creativity as well as reports on detailed studies of problem solving processes of pupils and preservice teachers Authors also present experiences with real problem solving instruction in different countries considerations and teaching experiments on didactic concepts to foster pupils problem solving abilities and they describe mathematically rich problem fields and their potentials for mathematical investigations in class ProMath is a group of experienced and early career researchers in the field of mathematics education who are interested in investigating and fostering mathematical problem solving and problem oriented mathematics teaching **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 Math Problem Solving in Action Nicki

Newton, 2017-02-10 In this new book from popular math consultant and bestselling author Dr Nicki Newton you ll learn how to help students become more effective and confident problem solvers Problem solving is a necessary skill for the 21st century but can be overwhelming for both teachers and students Dr Newton shows how to make word problems more engaging and relatable how to scaffold them and help students with math language how to implement collaborative groups for problem solving how to assess student progress and much more Topics include Incorporating problem solving throughout

the math block connecting problems to students real lives and teaching students to persevere Unpacking word problems across the curriculum and making them more comprehensible to students Scaffolding word problems so that students can organize all the pieces in doable ways Helping students navigate the complex language in a word problem Showing students how to reason about model and discuss word problems Using fun mini lessons to engage students in the premise of a word problem Implementing collaborative structures such as math literature circles to engage students in problem solving Getting the whole school involved in a problem solving challenge to promote schoolwide effort and engagement and Incorporating assessment to see where students are and help them get to the next level Each chapter offers examples charts and tools that you can use immediately The book also features an action plan so that you can confidently move forward and implement the book s ideas in your own classroom Free accompanying resources are provided on the author s website [www.drnickinewton.com](http://www.drnickinewton.com)

*Mathematical Problem Solving and New Information Technologies* Joao P. Ponte,1992-08-11 A strong and fluent competency in mathematics is a necessary condition for scientific technological and economic progress However it is widely recognized that problem solving reasoning and thinking processes are critical areas in which students performance lags far behind what should be expected and desired Mathematics is indeed an important subject but is also important to be able to use it in extra mathematical contexts Thinking strictly in terms of mathematics or thinking in terms of its relations with the real world involve quite different processes and issues This book includes the revised papers presented at the NATO ARW Information Technology and Mathematical Problem Solving Research held in April 1991 in Viana do Castelo Portugal which focused on the implications of computerized learning environments and cognitive psychology research for these mathematical activities In recent years several committees professional associations and distinguished individuals throughout the world have put forward proposals to renew mathematics curricula all emphasizing the importance of problem solving In order to be successful these reforming intentions require a theory driven research base But mathematics problem solving may be considered a chaotic field in which progress has been quite slow

### **Mathematical Problem Solving**

**Workbook 4** Satya Pradhan,2018-03-18 Having strong problem solving skills can make a huge difference in one s career in the modern knowledge based economy Problems are at the center of what we do at work every day Whether one is developing a vaccine for the flu creating an antivirus program for the Internet delivering lifesaving drugs to remote villages maximizing profits for a company or understanding the complex structure of our universe problems are an integral part of our everyday lives Being an effective and confident problem solver is really important to one s success Much of that confidence comes from having a good understanding of strategy and the tools to use when approaching a problem Therefore it is essential for students to develop the skills and techniques for problem solving at an early age when they are in elementary school Mathematical problem solving is often taught as a way to reinforce mathematical concepts which misses the importance of strategic thinking while solving a problem Many research articles and books have been written

emphasizing the importance of problem solving strategies However the burden of teaching problem solving strategies is left mostly to teachers and parents who are expected to develop their own curriculum and lesson plans for the complex topic of strategy and then teach it to students This book presents different problem solving strategies that can easily be used by teachers and parents to teach the subject The first three chapters present the concepts of number operations the basic problem solving strategies and the unitary method This is followed by many different problems that students will encounter in their careers These include lessons that present problems on numbers age time and distance money work and time and mixtures The focus of the book is to start with a problem statement understand the problem and then solve it with a known mathematical procedure Detailed examples are presented in each lesson to show the step by step strategy to solve different types of real life problems

**Mathematical Problem Solving Workbook 3** Satya Pradhan, 2018-03-20 Having strong problem solving skills can make a huge difference in one's career in the modern knowledge based economy Problems are at the center of what we do at work every day Whether one is developing a vaccine for the flu creating an antivirus program for the Internet delivering lifesaving drugs to remote villages maximizing profits for a company or understanding the complex structure of our universe problems are an integral part of our everyday lives Being an effective and confident problem solver is really important to one's success Much of that confidence comes from having a good understanding of strategy and the tools to use when approaching a problem Therefore it is essential for students to develop the skills and techniques for problem solving at an early age when they are in elementary school Mathematical problem solving is often taught as a way to reinforce mathematical concepts which misses the importance of strategic thinking while solving a problem Many research articles and books have been written emphasizing the importance of problem solving strategies However the burden of teaching problem solving strategies is left mostly to teachers and parents who are expected to develop their own curriculum and lesson plans for the complex topic of strategy and then teach it to students This book presents different problem solving strategies that can easily be used by teachers and parents to teach the subject The first three chapters present the concepts of number operations the basic problem solving strategies and the unitary method This is followed by many different problems that students will encounter in their careers These include lessons that present problems on numbers age time and distance money work and time and mixtures The focus of the book is to start with a problem statement understand the problem and then solve it with a known mathematical procedure Detailed examples are presented in each lesson to show the step by step strategy to solve different types of real life problems



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