

# 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

# Grade 3 Problem Solving Mathematics In Action

**John J. SanGiovanni**



### **Grade 3 Problem Solving Mathematics In Action:**

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lessons so that students not only learn the content but also how to solve problems reason communicate their thinking model use tools use precise language and see structure and patterns Throughout the book you ll find tools templates and blackline masters so that you can instantly adapt the lesson to your specific needs and use it right away With the easy to follow plans in this book students can more work effectively in small guided math groups and have loads of fun along the way Remember that guided math groups are about doing the math So doing mathematical sketches to show what they understand and can make sense of the abstract numbers When students are given the opportunities to make sense of the math in hands on and visual ways then the math begins to make sense

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**Daily Routines to Jump-Start Problem Solving, Grades K-8** John J. SanGiovanni,2023-04-03 Finally A book that helps solve the problem of teaching problem solving Learning to be a problem solver is hard Teaching students how to be problem solvers themselves can be even harder Some students may learn to mimic procedures to come up with correct answers but are they really learning to solve problems To become independent problem solvers students need to practice exploring tinkering and most importantly thinking The bite size routines in this guide are perfect for teachers looking for the interesting engaging and doable practice students need to become problem solving masters These flexible modifiable bursts of quality practice are designed to get students to look at problems in different ways spark discussion make connections and boost mathematics achievement This collection addresses the common challenges students and teachers face when learning to problem solve by Developing students mathematical reasoning and conceptual understanding Building students skills with various problem solving strategies Nurturing mathematical confidence and improving identity and agency Fortified with standards for math practices and processes the ideas in this guide develop the reasoning and critical thinking skills for students to become independent problem solvers for life

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*Fluency Doesn't Just Happen in Multiplication and Division* Nicki Newton,Ann Elise Record,Alison J. Mello,2024-06-20 Fluency in math doesn t just happen it is a well planned journey In this book you ll find practical strategies and activities for teaching your elementary students basic multiplication and division The authors lay out the basic framework for building math fluency using a cycle of engagement concrete pictorial abstract and provide a multitude of examples illustrating the strategies in action You ll learn how to help students to model their thinking with a variety of tools keep students engaged through games poems songs and technology assess student development to facilitate active and continuous learning implement distributed practices throughout the year and boost parental involvement so that students remain encouraged even as material becomes more complex A final chapter devoted to action plans will help you put these strategies into practice in your classroom right away Most importantly you ll open the door to deep and lasting math fluency

**The Handbook of Mathematical Cognition** Jamie I.D. Campbell,2005-08-15 How does the brain represent number and make mathematical calculations What underlies the development of numerical and mathematical abilities What factors affect the learning of numerical concepts and skills What are the biological bases of number knowledge

Do humans and other animals share similar numerical representations and processes What underlies numerical and mathematical disabilities and disorders and what is the prognosis for rehabilitation These questions are the domain of mathematical cognition the field of research concerned with the cognitive and neurological processes that underlie numerical and mathematical abilities The Handbook of Mathematical Cognition is a collection of 27 essays by leading researchers that provides a comprehensive review of this important research field *Digest of Educational Statistics* ,1963 **Statistics of Land-grant Colleges and Universities** United States. Office of Education,1963 **Bulletin** United States. Office of Education,1963 **Bulletin** ,1963 **Digital Learning in High-Needs Schools** Heejung An,David A. Fuentes,2023-06-21 Digital Learning in High Needs Schools examines the challenges and affordances that arise when high needs school communities integrate educational technologies into their unique settings Although remote blended and networked learning are ubiquitous today a number of cultural economic and political realities from the digital divide and digital literacy to poverty and language barriers affect our most vulnerable and underresourced teachers and students This book uses critical theory to compassionately scrutinize and unpack the systemic issues that impact high needs schools implementation of digital learning tools Incisive sociocultural analyses across fifteen original chapters explore the intersection of society technology people politics and education in high needs school contexts Informed by real world cases pertaining to technology infrastructure formative feedback Universal Design for Learning and more these chapters illuminate how best practices emerge from culturally responsive and context specific foundations

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