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Starting Points

Starting Point 4: Helping Students Become Effective Math Learners

Starting Point 6: Why Do Students Make Common From Arithmetic to Problem Solving

Starting Point 9: From Word Problems to Problem Solving:

Starting Point 10: Problem-Solving Strategies and Issues

Starting Point 13: Integrating Formative Assessment

Suggestions for Classroom Instruction

Classroom Instruction

Practices, and Instruction

tears when I reached twenty. So now I prepare students. Plus I also set up the game in a first grade class and the boy I chose to play against burst into an accidental pun. Sorry.) I've been making this statement since I taught play the game with me. "Before you volunteer," I advise the students, "be

standard 1, Make sense of problems and persevere in solving them, and what they're doing to look for patterns or structure that help them make successful app. It's easy to learn to play, it's engaging, there are various ver-
to count fast. Rather, the goal is to count smart.

When two players have the same knowledge, students. I've also used it successfully with teacher and parent groups, most

Over the years, teachers have writ-
to Marilyn asking for help with some of the investigations in About Teaching Mathematics. In these sections, Marilyn addresses the underlying mathematics for those problem-solving investigations.

About the Mathematics

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Sample Whole-Class Lessons

Detailed plans are provided for using problem-solving investigations in whole-class lessons. These instructional suggestions are offered for all the content areas in Part 2 and for all arithmetic topics in Part 3.

About the Mathematics

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Race for 20
Play with a partner. Players take turns counting one or two more numbers. The winner is the player who says, “Twenty.”

Race for 32
Race for 21

Part 2
Problem-Solving Investigations

After an introduction about how to plan problem-solving lessons, specific ideas are organized into five areas of the curriculum:
- Measurement
- Data
- Geometry
- Patterns and Algebraic Thinking
- Number and Operations

Each section includes an overview of the mathematical focus, sample whole-class lessons, additional investigations for whole-class lessons, and independent investigations.

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About Marilyn’s Notes

Marilyn’s personal (and dog-eared) copy of the Third Edition is filled with notes, some scribbled into the margins and some on sticky notes. In this new Fourth Edition, Marilyn has reproduced many of these notes, added new ones as well, and organized them into categories to make them more useful. Look for notes titled Teaching Tip, Management Suggestion, When Observing, Vocabulary Suggestion, Literature Connection, and more.

Includes more than 250 math investigations!
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