"A cube is the same as a square."
"Subtraction always means 'take away.'"
"One-half is one of two parts."

Sound familiar?

Nearly all students make mathematical mistakes—often perfectly logical mistakes based on common misunderstandings. Untangle your kids’ misconceptions.

“In this wonderfully insightful book, Honi, Christine, and Karren not only describe a vast array of perfectly understandable mathematical misconceptions that students have across the elementary curriculum, they also provide numerous practical instructional strategies and activities for helping “undo” the misconceptions. The classroom vignettes they describe will ring true to everyone who has tried to teach mathematics.” —Steven Leinwand
Children enter school filled with all kinds of ideas about numbers, shapes, measuring tools, time, and money—ideas formed from the expressions they hear…the things they see on television…the computer screen…in children’s books…all around them. It’s no wonder some children develop very interesting and perhaps incorrect ideas about mathematical concepts.

**Math Misconceptions** identifies the most common errors relative to the five NCTM content strands, investigates the source of these misunderstandings, and proposes ways to avoid as well as “undo” misconceptions.

Within each chapter you’ll find explicit guidance:

- **Classroom Vignettes** showcase common misconceptions within each content strand
- **Identifying the Error Patterns** explain why the misconception occurs
- **What the Research Says** explain the root causes of the confusion
- **Ideas for Instruction** offer teachers explicit things they can do to prevent or correct the misconception
- **Questions to Ponder** guide your reading of the book and provide discussion points with colleagues.

**And it gets even better.** Two companion resources provide instructional ideas and engaging activities that can be implemented in any classroom.

Each section in **Activities to Undo Math Misconceptions**, Grades PreK–2 and 3–5 includes:

- **What to Do:** explicit ideas for preventing or correcting a particular misconception
- **Look Fors:** what to check for as students work through the activities
- **Bibliography:** recommended lists of engaging books that connect math to literature and promote problem solving
- **Reproducibles:** blackline masters for activities and games you can immediately incorporate into your classroom instruction.

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