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Reasoning and Sense Making in the Mathematics Classroom Grades: 3-5 (Paperback)

By Michael T. Battista, Jae Meen Baek, Kathleen Cramer

National Council of Teachers of Mathematics, U.S., United States, 2017. Paperback. Condition: New. Language: N/A. Brand New Book. Based on extensive research conducted by the authors, Reasoning and Sense Making in the Mathematics Classroom, Grades 3-5, is designed to help classroom teachers understand, monitor, and guide the development of students reasoning and sense making about core ideas in elementary school mathematics. It describes and illustrates the nature of these skills using classroom vignettes and actual student work in conjunction with instructional tasks and learning progressions to show how reasoning and sense making develop and how instruction can support students in that development. Students who can make sense of mathematical ideas can apply those ideas in problem solving, even in unfamiliar situations, and can use them as a foundation for future learning. Without them, students are reduced to rote learning, often experiencing frustration and failure. But what do reasoning and sense making during learning and teaching look like? Each chapter of Reasoning and Sense Making in the Mathematics Classroom, Grades 3-5 explores a different topic that children encounter in mathematics, demonstrating with actual student work and classroom dialogue how their mathematical knowledge and reasoning ability move through levels of sophistication or learning progressions. After opening with...



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