



Developing Essential Understanding of Expressions, Equations, and Functions for Teaching Math in Grades 6-8

By Beth Herbel-Eisenmann, Gwendolyn M. Lloyd, Jonathan Star, Rose Mary Zbiek

National Council of Teachers of Mathematics, U.S. Paperback. Book Condition: new. BRAND NEW, Developing Essential Understanding of Expressions, Equations, and Functions for Teaching Math in Grades 6-8, Beth Herbel-Eisenmann, Gwendolyn M. Lloyd, Jonathan Star, Rose Mary Zbiek, Why do some equations have one solution, others two or even more solutions and some no solutions? Why do we sometimes need to "switch" the direction of an inequality symbol in solving an inequality? What could you say if a student described a function as an equation? How much do you know and how much do you need to know? Helping your students develop a robust understanding of expressions, equations and functions requires that you understand this mathematics deeply. But what does that mean? This book focuses on essential knowledge for teachers about expressions, equations and functions. It is organized around five big ideas, supported by multiple smaller, interconnected ideas - essential understandings. Taking you beyond a simple introduction to expressions, equations and functions, the book will broaden and deepen your mathematical understanding of one of the most challenging topics for students - and teachers. It will help you engage your students, anticipate their perplexities, avoid pitfalls and dispel misconceptions. You will also learn to develop appropriate tasks,...

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