



# **Mathematical and Analogical Reasoning of Young Learners (Studies in Mathematical Thinking and Learning Series)**

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## **Mathematical and Analogical Reasoning of Young Learners (Studies in Mathematical Thinking and Learning Series)**

*Mathematical and Analogical Reasoning of Young Learners* provides foundational knowledge of the nature, development, and assessment of mathematical and analogical reasoning in young children. Reasoning is fundamental to understanding mathematics and is identified as one of the 10 key standards for school mathematics for the new millennium. The book draws on longitudinal and cross-cultural studies, conducted in the United States and Australia, of children's reasoning development as they progressed from preschool through the end of second grade.

The multifaceted analysis of young children's development of mathematical and analogical reasoning focuses on individual learners, their learning environments, and the interaction between the two. The multidisciplinary team of authors present multiple perspectives and multiple methodologies, and provide valuable information on organizing and sustaining interdisciplinary and cross-cultural inquiry. Key issues addressed include:

- \*the relationship between mathematical and analogical reasoning;
- \*how changes in children's reasoning relate to the implicit instruction they receive in their classrooms;
- \*analyses of the participating teachers' knowledge, beliefs, and practices with respect to mathematical and analogical reasoning of young learners; and
- \*ways in which we might promote development of mathematical and analogical reasoning in young children.

This volume is highly relevant for mathematics educators, researchers in mathematics education, educational psychologists, early childhood teachers, and others interested in mathematical development of young children, in particular, the development of their reasoning processes.



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