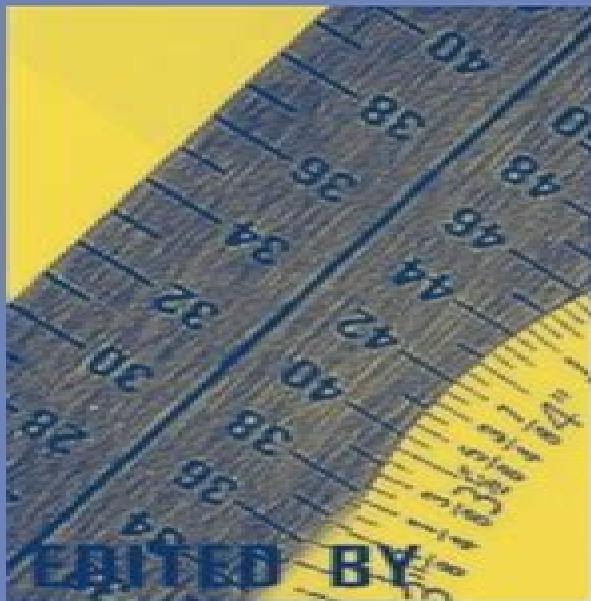


MATHEMATICAL ANALOGIES, METAPHORS, AND IMAGES REASONING



EDITED BY

LYN D. ENGLISH

Mathematical Reasoning Analogies Metaphors And Images

Victor M. Corman

Mathematical Reasoning Analogies Metaphors And Images:

Mathematical Reasoning Lyn D. English, 2013-04-03 How we reason with mathematical ideas continues to be a fascinating and challenging topic of research particularly with the rapid and diverse developments in the field of cognitive science that have taken place in recent years. Because it draws on multiple disciplines including psychology, philosophy, computer science, linguistics, and anthropology, cognitive science provides rich scope for addressing issues that are at the core of mathematical learning. Drawing upon the interdisciplinary nature of cognitive science, this book presents a broadened perspective on mathematics and mathematical reasoning. It represents a move away from the traditional notion of reasoning as abstract and disembodied to the contemporary view that it is embodied and imaginative. From this perspective, mathematical reasoning involves reasoning with structures that emerge from our bodily experiences as we interact with the environment; these structures extend beyond finitary propositional representations. Mathematical reasoning is imaginative in the sense that it utilizes a number of powerful illuminating devices that structure these concrete experiences and transform them into models for abstract thought. These thinking tools—analogy, metaphor, metonymy, and imagery—play an important role in mathematical reasoning, as the chapters in this book demonstrate. Yet their potential for enhancing learning in the domain has received little recognition. This book is an attempt to fill this void. Drawing upon backgrounds in mathematics education, educational psychology, philosophy, linguistics, and cognitive science, the chapter authors provide a rich and comprehensive analysis of mathematical reasoning. New and exciting perspectives are presented on the nature of mathematics (e.g., mind-based mathematics) on the array of powerful cognitive tools for reasoning (e.g., analogy and metaphor) and on the different ways these tools can facilitate mathematical reasoning. Examples are drawn from the reasoning of the preschool child to that of the adult learner.

Posing and Solving Mathematical Problems Patricio Felmer, Erkki Pehkonen, Jeremy Kilpatrick, 2016-04-29 This book collects recent research on posing and solving mathematical problems. Rather than treating these two crucial aspects of school mathematics as separate areas of study, the authors approach them as a unit where both areas are measured on equal grounds in relation to each other. The contributors are from a vast variety of countries and with a wide range of experience; it includes the work from many of the leading researchers in the area and an important number of young researchers. The book is divided in three parts: one directed to new research perspectives and the other two directed to teachers and students respectively.

Handbook of Research on the Psychology of Mathematics Education, 2006-01-01 This volume is a compilation of the research produced by the International Group for the Psychology of Mathematics Education (PME) since its creation 30 years ago. It has been written to become an essential reference for Mathematics Education research in the coming years. The chapters offer summaries and synthesis of the research produced by the PME Group, presented to let the readers grasp the evolution of paradigms, questions, methodologies, and most relevant research results during the last 30 years. They also include extensive lists of references. Beyond this, the chapters raise the main current

research questions and suggest directions for future research The handbook is divided into five sections devoted to the main research domains of interest to the PME Group The first three sections summarize cognitively oriented research on learning and teaching specific content areas transversal areas and based on technology rich environments The fourth section is devoted to the research on social affective cultural and cognitive aspects of Mathematics Education Finally the fifth section includes two chapters summarizing the PME research on teacher training and professional life of mathematics teachers The volume is the result of the effort of 30 authors and 26 reviewers Most of them are recognized leading PME researchers with great expertise on the topic of their chapter This handbook shall be of interest to both experienced researchers and doctoral students needing detailed synthesis of the advances and future directions of research in Mathematics Education and also to mathematics teacher trainers who need to have a comprehensive reference as background for their courses on Mathematics Education

Image Schema Theory and Mathematical Cognition Marcel Danesi,2025-04-10 This book uses blending theory in math cognition and assesses the main aspect of this theory called image schema theory Applied work in math pedagogy has used this theory but no work has assessed its validity This book provides an overall assessment of the theory with regard to its validity in the study of math cognition Overall this book presents image schema theory as it has evolved today to mathematicians cognitive scientists and math educators deriving from it any concrete implications for modeling math in computer science and on the other side for making math pedagogy more effective

[Interdisciplinary Educational Research in Mathematics and Its Connections to the Arts and Sciences](#) Bharath Sriraman,Claus Michelsen,Astrid Beckmann,Viktor Freiman,2008-07-25 This book based on the MACAS2 Symposium presents interdisciplinary research in mathematics education It covers themes like modeling activities connections between math and physics ethnomathematics mathematical literacy classroom experiments and the role of technology in interdisciplinary learning

Handbook of International Research in Mathematics Education Lyn D. English,2002-03 This state of the art Handbook brings together important mathematics education research that makes a difference in both theory and practice research that anticipates problems and needed knowledge before they become impediments to progress interprets future oriented problems into researchable issues presents the implications of research and theory development in forms that are useful to practitioners and policymakers and facilitates the development of research communities to focus on neglected priorities or strategic opportunities The volume represents a genuine attempt by contributors from around the world to advance the discipline rather than simply review what has been done and what exists The Handbook was developed in response to a number of major global catalysts for change including the impact of national and international mathematics comparative assessment studies the social cultural economic and political influences on mathematics education and research the influence of progressively sophisticated and available technology and the increasing globalization of mathematics education and research From these catalysts have emerged specific priority themes and issues for mathematics education research in the

21st century Three key themes were identified for attention in this volume life long democratic access to powerful mathematical ideas advances in research methodologies and influences of advanced technologies Each of these themes is examined in terms of learners teachers and learning contexts with theory development as an important component of all these aspects Dynamic and forward looking the Handbook of International Research in Mathematics Education is distinguished by its focus on new and emerging theoretical models perspectives and research methodologies its uniformly high standard of scholarship and its emphasis on the international nature of mathematics education research It is an essential volume for all researchers professionals and students interested in mathematics education research in particular and more generally in international developments and future directions in the broad field of educational research

Mathematics & Mathematics Education: Searching for Common Ground Michael N. Fried, Tommy

Dreyfus,2013-11-29 This book is the fruit of a symposium in honor of Ted Eisenberg concerning the growing divide between the mathematics community and the mathematics education community a divide that is clearly unhealthy for both The work confronts this disturbing gap by considering the nature of the relationship between mathematics education and mathematics and by examining areas of commonality as well as disagreement It seeks to provide insight into the mutual benefit both stand to gain by building bridges based on the natural bonds between them

Critical Issues in Mathematics Education Philip

Clarkson, Norma C. Presmeg,2008-09-22 Critical Issues in Mathematics Education presents the significant contributions of Professor Alan Bishop within the mathematics education research community Six critical issues each of which have had paramount importance in the development of mathematics education research are reviewed and include a discussion of current developments in each area Teacher decision making spatial visualizing geometry teachers and research cultural social aspects of mathematics education sociopolitical issues and values serve as the basic issues discussed in this examination of mathematics education over the last fifty years during which Professor Bishop has been active in the field A comprehensive discussion of each of these topics is realized by offering the reader a classic research contribution of

Professor Bishop s together with commentary and invited chapters from leading experts in the field of mathematics education Critical Issues in Mathematics Education will make an invaluable contribution to the ongoing reflection of mathematic education researchers worldwide but also to policy makers and teacher educators who wish to understand some of the key issues with which mathematics education has been and still is concerned and the context within which Professor Bishop s key contributions to these research issues were made

Adding It Up National Research Council,Division of Behavioral and

Social Sciences and Education,Center for Education,Mathematics Learning Study Committee,2001-12-13 Adding It Up explores how students in pre K through 8th grade learn mathematics and recommends how teaching curricula and teacher education should change to improve mathematics learning during these critical years The committee identifies five interdependent components of mathematical proficiency and describes how students develop this proficiency With examples

and illustrations the book presents a portrait of mathematics learning Research findings on what children know about numbers by the time they arrive in pre K and the implications for mathematics instruction Details on the processes by which students acquire mathematical proficiency with whole numbers rational numbers and integers as well as beginning algebra geometry measurement and probability and statistics The committee discusses what is known from research about teaching for mathematics proficiency focusing on the interactions between teachers and students around educational materials and how teachers develop proficiency in teaching mathematics

Developing Mathematical Reasoning in Grades K-12

Lee Stiff,Frances R. Curcio,1999 This book sharpens your view of mathematical reasoning and its development at all grade levels It reveals the various perspectives about the nature of reasoning Also it addresses the many issues and concerns involving mathematical reasoning how learners reason in mathematics how communication promotes reasoning how teachers gather evidence of student reasoning what curricular approaches can be profitably explored what can be done to ensure success in developing reasoning and more This useful resource lets you dig deep into the topic and offers many ideas useful in your classroom

Psychology in Learning and Instruction Patricia A. Alexander,2006 This book introduces future educators and researchers to several different psychological perspectives and uses these perspectives to introduce key issues such as knowledge acquisition and transfer strategic process and student motivation As an editor and reviewer of the top journals in the field the author is able to present the latest research in language that is accessible and understandable Unlike other books that are organized around theoretical topics valued by psychologists it is organized around education problems and issues deemed important by educators

Prospective Secondary Mathematics Teachers' Conceptions of Function

Insook Cha,1999 Annual Meeting Program - American Educational Research Association American Educational

Research Association,1997 Annual Meeting Program American Educational Research Association,1997 *A New Mind for Policy Analysis* Goktug Morcol,2002-12-30 Morcol argues that the objectivist and deterministic assumptions of mainstream policy analysis which are based on the Newtonian positivist worldview or mind set should be transcended After demonstrating that the favored methods of mainstream policy analysis are based on Newtonian ontological and positivist epistemological assumptions and that the connections between these two are intimately and historically related he critically assesses and highlights the contributions of quantum mechanics complexity theory and cognitive science to a new mind set in scientific knowledge a post Newtonian and postpositivist mind set Newtonian positivist and post Newtonian postpositivist worldviews are conceptualized as fuzzy mind sets that is they are not mutually exclusive and that they share assumptions at varying degrees Cognitive science shows that some of the fundamental concepts and assumptions of the Newtonian positivist philosophy such as the concept of causality and the tendency to categorize reality reductionist thinking are the products of the evolutionary adaptation of the human mind and they have become its built in defaults As Morcol suggests we cannot change the biological defaults of our minds but we can change our way of thinking to an extent through a cultural evolution He

argues that conscious efforts can be made in policy analysis education to help move our thinking toward a post Newtonian and postpositivist policy analysis Of particular interest to scholars and advanced students dealing with policy analysis public administration and political science especially those concerned with epistemology and methodology Complex Systems ,2007 Computational Linguistics ,1998 *Designing with Blends* Manuel Imaz,David Benyon,2007 How recent research in cognitive science offers new ways to understand the interaction of people and computers and develops a new literacy for well informed sensitive software design The evolution of the concept of mind in cognitive science over the past 25 years creates new ways to think about the interaction of people and computers New ideas about embodiment metaphor as a fundamental cognitive process and conceptual integration a blending of older concepts that gives rise to new emergent properties have become increasingly important in software engineering SE and human computer interaction HCI If once computing was based on algorithms mathematical theories and formal notations now the use of stories metaphors and blends can contribute to well informed sensitive software design In Designing with Blends Manuel Imaz and David Benyon show how these new metaphors and concepts of mind allow us to discover new aspects of HCI SE After 60 years digital technology has come of age but software design has not kept pace with technological sophistication people struggle to understand and use their computers cameras phones and other devices Imaz and Benyon argue that the dominance of digital media in our lives demands changes in HCI SE based on advances in cognitive science The idea of embodied cognition they contend can change the way we approach design by emphasizing the figurative nature of interaction Imaz and Benyon offer both theoretical grounding and practical examples that illustrate the advantages of applying cognitive concepts to software design A new view of cognition they argue will develop a cognitive literacy in software and interaction design that helps designers understand the opportunities of digital technology and provides people with a more satisfying interactive experience *For the Learning of Mathematics* ,2008 **Learning and Instruction** Richard E. Mayer,2003 How do people learn How can instruction promote learning This new book by a noted scholar thoroughly and succinctly answers these two fundamental educational psychology questions The author focuses on the big ideas preferring that readers understand a few exemplary ideas deeply rather than numerous ideas superficially The book uses clear definitions concrete examples and a conversational writing style that easily engages readers by addressing them directly Coverage is organized around two sides of the educational coin learning in subject areas and instructional methods that foster meaningful learning and explaining what research says about the learning teaching process For professionals in the field of Education Psychology

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