

Mind in Mathematics: Essays on Mathematical Cognition and Mathematical Method

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**Interdisciplinary Studies
on the Nature of Mathematics**

03

Mind Mathematics Essays Mathematical Cognition

Jamin Pelkey



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Mind in Mathematics: Essays on Mathematical Cognition and Mathematical Method Mariana Bockarova, Marcel Danesi, Dragana Martinovic, Rafael Núñez, 2015 *Interdisciplinary Perspectives on Math Cognition* Marcel Danesi, 2019-09-14 This is an anthology of contemporary studies from various disciplinary perspectives written by some of the world's most renowned experts in each of the areas of mathematics neuroscience psychology linguistics semiotics education and more Its purpose is not to add merely to the accumulation of studies but to show that math cognition is best approached from various disciplinary angles with the goal of broadening the general understanding of mathematical cognition through the different theoretical threads that can be woven into an overall understanding This volume will be of interest to mathematicians cognitive scientists educators of mathematics philosophers of mathematics semioticians psychologists linguists anthropologists and all other kinds of scholars who are interested in the nature origin and development of mathematical cognition **Handbook of Cognitive Mathematics** Marcel Danesi, 2022-10-31 Cognitive mathematics provides insights into how mathematics works inside the brain and how it is interconnected with other faculties through so called blending and other associative processes This handbook is the first large collection of various aspects of cognitive mathematics to be amassed into a single title covering decades of connection between mathematics and other figurative processes as they manifest themselves in language art and even algorithms It will be of use to anyone working in math cognition and education with each section of the handbook edited by an international leader in that field

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

The Heuristic View Emiliano Ippoliti, Fabio Sterpetti, 2025-10-01 This volume offers a series of thought provoking analyses that explore non mainstream perspectives on knowledge acquisition and scientific discovery A central theme across many of the contributions is the heuristic conception of method a view that finds its philosophical roots in Imre Lakatos s work in the philosophy of mathematics and more distantly in Platonic notions of philosophical inquiry Knowledge acquisition is frequently conceptualized as a form of problem solving and problem solving is typically regarded as a rational endeavor However the dominant view in the philosophy of science has long held that scientific discovery resists systematic explanation in terms of logic and rationality If an alternative account of discovery grounded in these terms can be developed it would represent a significant theoretical advancement The essays collected in this book critically assess the promise and limitations of such non standard accounts and they investigate the possibility of framing scientific discovery within a logical and rational framework This volume will be of particular interest to scholars in the philosophy of science epistemology philosophy of mathematics and philosophy of logic as well as to scientists engaged in theoretical inquiry and graduate students working in these or related areas

18 Unconventional Essays on the Nature of Mathematics Reuben Hersh, 2006-01-16 This book comes from the Internet Browsing the Web I stumbled on philosophers cognitive scientists sociologists computer scientists even mathematicians saying original provocative things about mathematics And many of these people had probably never heard of each other So I have collected them here This way they can read each other s work I also bring back a few provocative oldies that deserve publicity The authors are philosophers mathematicians a cognitive scientist an anthropologist a computer scientist and a couple of sociologists Among the mathematicians are two Fields Prize winners and two Steele Prize winners None are historians I regret to say but there are two historically oriented articles These essays don t share any common program or ideology The standard for admission was Nothing boring Nothing trite nothing trivial Every essay is challenging thought provoking and original Back in the 1970s when I started writing about mathematics instead of just doing mathematics I had to complain about the literature Philosophy of science was already well into its modern revival largely stimulated by the book of Thomas Kuhn But philosophy of mathematics still seemed to be mostly foundationist ping pong in the ancient style of Rudolf Carnap or Willard Van Ormond Quine The great exception was *Proofs and Refutations* by Imre Lakatos But that exciting book was still virtually unknown and unread by either mathematicians or philosophers I wrote an article entitled *Introducing Imre Lakatos in the Mathematical Intelligencer* in 1978

Edusemiotics - A Handbook Inna Semetsky, 2016-10-17 Edusemiotics is a pioneering area of study that connects semiotics the science of signs with educational theory and the philosophy of education This volume reflects cutting edge research by scholars in

education and in semiotics worldwide bridging the two discourses to present the state of the art in this new transdisciplinary field The book s emphasis is on educational theory as based on semiotic philosophy as such it challenges the current conception of semiotics in education as merely a sub branch of applied semiotics It presents edusemiotics as a novel unified conceptual framework at the interface of theoretical semiotics and educational philosophy based on both theoretical and empirical studies from around the world The chapters in this handbook also bring to the fore the intellectual legacy of Charles S Peirce John Dewey Gilles Deleuze Umberto Eco Julia Kristeva Mikhail Bakhtin Paul Ricoeur Martin Heidegger and other thinkers pointing out the implications of edusemiotics for meaningful pedagogy and experiential learning in diverse contexts *Semiotic Approaches in Science Didactics* Catherine Houdement,Cécile de Hosson,Christophe

Hache,2022-11-01 The sciences are in essence highly semiotized Our ways of thinking and communicating about science are based on permanent transformations from one system of signs to another such as scriptural graphic symbolic oral and gestural signs The semiotic focus studied in this book makes it possible to grasp part of the complexity of teaching and learning phenomena by focusing on the variety of possible interpretations of the signs that circulate within the science classroom *Semiotic Approaches in Science Didactics* brings together contributions from didactic research involving various disciplines such as mathematics chemistry physics and geography which mobilize different types of semiotic support It offers the key to understanding and even reducing some of the misunderstandings that can arise between a speaker and a receiver in scientific teaching situations

Handbook of Abductive Cognition Lorenzo Magnani,2023-03-31 This Handbook offers the first comprehensive reference guide to the interdisciplinary field of abductive cognition providing readers with extensive information on the process of reasoning to hypotheses in humans animals and in computational machines It highlights the role of abduction in both theory practice in generating and testing hypotheses and explanatory functions for various purposes and as an educational device It merges logical cognitive epistemological and philosophical perspectives with more practical needs relating to the application of abduction across various disciplines and practices such as in diagnosis creative reasoning scientific discovery diagrammatic and ignorance based cognition and adversarial strategies It also discusses the inferential role of models in hypothetical reasoning abduction and creativity including the process of development implementation and manipulation for different scientific and technological purposes Written by a group of internationally renowned experts in philosophy logic general epistemology mathematics cognitive and computer science as well as life sciences engineering architecture and economics the *Handbook of Abductive Cognition* offers a unique reference guide for readers approaching the process of reasoning to hypotheses from different perspectives and for various theoretical and practical purposes Numerous diagrams schemes and other visual representations are included to promote a better understanding of the relevant concepts and to make concepts highly accessible to an audience of scholars and students with different scientific backgrounds *Bloomsbury Semiotics Volume 2: Semiotics in the Natural and Technical Sciences* Jamin Pelkey,Stéphanie

Walsh Matthews,2023-01-12 Bloomsbury Semiotics offers a state of the art overview of the entire field of semiotics by revealing its influence on a wide range of disciplinary perspectives With four volumes spanning theory method and practice across the disciplines this definitive reference work emphasizes and strengthens common bonds shared across intellectual cultures and facilitates the discovery and recovery of meaning across fields It comprises Volume 1 History and Semiosis Volume 2 Semiotics in the Natural and Technical Sciences Volume 3 Semiotics in the Arts and Social Sciences Volume 4 Semiotic Movements Written by leading international experts the chapters provide comprehensive overviews of the history and status of semiotic inquiry across a diverse range of traditions and disciplines Together they highlight key contemporary developments and debates along with ongoing research priorities Providing the most comprehensive and united overview of the field Bloomsbury Semiotics enables anyone from students to seasoned practitioners to better understand and benefit from semiotic insight and how it relates to their own area of study or research Volume 2 Semiotics in the Natural and Technical Sciences presents the state of the art in semiotic approaches to disciplines ranging from mathematics and biology to neuroscience and medicine from evolutionary linguistics and animal behaviour studies to computing finance law architecture and design Each chapter casts a vision for future research priorities unanswered questions and fresh openings for semiotic participation in these and related fields

The Semiotics of X Jamin Pelkey,2017-02-23 The X figure is ubiquitous in contemporary culture but attempts to explain our fixation with X are rare This book argues that the origins and meanings of X go far beyond alphabets and archetypes to remembered feelings of body movements movements best typified in the performance of spread eagle as a posture or gesture These body memories are then projected onto other patterns and dynamics to help us make sense of the world The argument is accomplished using a blend of insights from linguistic anthropology cognitive linguistics rhetoric culture and process semiotics to bring together revealing clues from languages cultures and thinkers around the world Chief among the uses and experiences of X are its tendencies to involve us in surprising reversals and blends In ancient times the X pattern was discussed as chiasmus a figure which according to Maurice Merleau Ponty informs the most basic elements of our bodily experience calling into question polarized dichotomies such as subject versus object Pushed to extremes presumed opposites like these tend to reverse suddenly Likewise blended experiences of our bodily extremities arms and legs toes and fingers hands and feet provide a plausible source of grounding for unique human abilities like analogy and double scope conceptual integration The book illustrates these dynamics by drawing attention to uses of X in history prehistory and daily life from sports and advertising to world mythology and languages around the world The Semiotics of X is the first step towards developing a larger argument on the important but neglected role that chiasmus plays in cognition It aims to inspire continued exploration on the figure with the full expectation that chiasmus will become for the 21st century what metaphor became for the 20th century a revolution in thinking about the way we think

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 *An Introduction to Mathematical Cognition* Camilla Gilmore, Silke M. Göbel, Matthew Inglis, 2018-06-13 The last decade has seen a rapid growth in our understanding of the cognitive systems that underlie mathematical learning and performance and an increased recognition of the importance of this topic This book showcases international research on the most important cognitive issues that affect mathematical performance across a wide age range from early childhood to adulthood The book considers the foundational competencies of nonsymbolic and symbolic number processing before discussing arithmetic conceptual understanding individual differences and dyscalculia algebra number systems reasoning and higher level mathematics such as formal proof Drawing on diverse methodology from behavioural experiments to brain imaging each chapter discusses key theories and empirical findings and introduces key tasks used by researchers The final chapter discusses challenges facing the future development of the field of mathematical cognition and reviews a set of open questions that mathematical cognition researchers should address to move the field forward This book is ideal for undergraduate or graduate students of psychology education cognitive sciences cognitive neuroscience and other academic and clinical audiences including mathematics educators and educational psychologists *The Handbook of Mathematical Cognition* Jamie I.D. Campbell, 2005-08-15 How does the brain represent number and make mathematical calculations What underlies the development of numerical and mathematical abilities What factors affect the learning of numerical concepts and skills What are the biological bases of number knowledge Do humans and other animals share similar numerical representations and processes What underlies numerical and mathematical disabilities and disorders and what is the prognosis for rehabilitation These questions are the domain of mathematical cognition the field of research concerned with the cognitive and neurological processes that underlie numerical and mathematical abilities *The Handbook of Mathematical Cognition* is a collection of 27 essays by leading researchers that provides a comprehensive review of this important research field *Handbook of Mathematical Cognition* Jamie I. D. Campbell, 2005 First Published in 2005 Routledge is an imprint of Taylor Francis an informa company **Mathematics under the Microscope** Alexandre Borovik, 2010 Discusses from a working mathematician's point of view the mystery of mathematical intuition Why are certain mathematical concepts more intuitive than others And to what extent does the small scale structure of mathematical concepts and algorithms reflect the workings of the human brain Language and Culture in Mathematical Cognition Daniel B. Berch, David C. Geary, Kathleen Mann Koepke, 2018-07-27 *Language and Culture in Mathematical Cognition* First Edition focuses on the role of linguistic and

cultural factors in math cognition and development It covers a wide range of topics including analogical mapping in numerical development arithmetic fact retrieval in the bilingual brain cross cultural comparisons of mathematics achievement the shaping of numerical processing by number word construction the influence of Head Start programs the mathematical skills of children with specific language impairments the role of culture and language in creating associations between number and space and electrophysiological studies of linguistic traces in core knowledge at the neural level Includes cutting edge findings innovative measures recent methodological advances and groundbreaking theoretical developments Synthesizes research from various subdomains of math cognition research Covers the full complement of research in mathematical thinking and learning Informs researchers scholars educators students and policymakers

Second Handbook of Research on Mathematics Teaching and Learning Frank K. Lester, 2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflect the mathematics education research community's willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research findings might be for those outside their immediate community

Language, Brain, and Cognitive Development Jacques Mehler, 2001 The contributions to this collection assess the progress of cognitive science The questions addressed include What have we learned or not learned about language brain and cognition Where are we now Where have we failed Where have we succeeded Cognitive Neuroscience Marie T. Banich, Rebecca J. Compton, 2018-04-05 Updated thoroughly this comprehensive text highlights the most important issues in cognitive neuroscience supported by clinical applications

Mind Mathematics Essays Mathematical Cognition Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mind Mathematics Essays Mathematical Cognition**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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