



THE DEVELOPMENT OF

Multiplicative Reasoning

IN THE LEARNING OF MATHEMATICS

edited by Guershon Harel & Jere Confrey

Development Of Multiplicative Reasoning In The Learning Of Mathematics

**Robert Reys, Mary Lindquist, Diana V.
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Cooke, Melissa Fanshawe, Mark Gronow**

Development Of Multiplicative Reasoning In The Learning Of Mathematics:

The Development of Multiplicative Reasoning in the Learning of Mathematics Guershon Harel, Jere Confrey, 1994-01-01 Two of the most important concepts children develop progressively throughout their mathematics education years are additivity and multiplicativity Additivity is associated with situations that involve adding joining affixing subtracting separating and removing Multiplicativity is associated with situations that involve duplicating shrinking stressing sharing equally multiplying dividing and exponentiating This book presents multiplicativity in terms of a multiplicative conceptual field MCF not as individual concepts It is presented in terms of interrelations and dependencies within between and among multiplicative concepts The authors share the view that research on the mathematical cognitive and instructional aspects of multiplicative concepts must be situated in an MCF framework

The Development of Multiplicative Reasoning in the Learning of Mathematics Guershon Harel, Jere Confrey, 1994-06-28 Two of the most important concepts children develop progressively throughout their mathematics education years are additivity and multiplicativity Additivity is associated with situations that involve adding joining affixing subtracting separating and removing Multiplicativity is associated with situations that involve duplicating shrinking stressing sharing equally multiplying dividing and exponentiating This book presents multiplicativity in terms of a multiplicative conceptual field MCF not as individual concepts It is presented in terms of interrelations and dependencies within between and among multiplicative concepts The authors share the view that research on the mathematical cognitive and instructional aspects of multiplicative concepts must be situated in an MCF framework

Providing a Foundation for Teaching Mathematics in the Middle Grades Judith T. Sowder, Bonnie P. Schappelle, 1995-01-01 This book provides middle school teachers with a firm pedagogical foundation based on the manner in which students learn the mathematics being taught

Indicators of Multiplicative Reasoning Among Fourth Grade Students James A. Carrier, 2010 Many students encounter difficulty in their transition to advanced mathematical thinking Such difficulty may be explained by a lack of understanding of many concepts taught in early school years especially multiplicative reasoning Advanced mathematical thinking depends on the development of multiplicative reasoning The purpose of this study was to identify indicators of multiplicative reasoning among fourth grade students Inhelder and Piaget 1958 suggested that children circa age eleven are transitioning from the Concrete Operational Stage to the Formal Operations Stage and that it is not likely for children to demonstrate multiplicative reasoning without the structures of development supporting logical and abstract thinking By employing a cross case analysis this study explores the thinking of fourteen math students from a low socioeconomic school Through cross case analysis the researcher probed for patterns of multiplicative reasoning as students progressed through a test instrument which invoked varying levels of multiplicative reasoning Section one did not distinguish between multiplicative algorithms and multiplicative reasoning Section two discriminated with respect to multiplicative scheme extension Section three discriminated with respect to unequal group identification and manipulation Section 4

discriminated with respect to proportional reasoning but not with respect to multiplicative reasoning The fourth grade subjects fell into three categories pre multiplicative emergent and multipliers Those subjects who utilized multiplicative reasoning on less than four questions were considered pre multiplicative whereas those subjects who utilized multiplicative reasoning on six or more questions were considered multipliers The remaining seven were those subjects who changed their approach from test item to test item sometimes demonstrating multiplicative reasoning strategies and at other times demonstrating additive reasoning strategies These subjects were considered emergent in the development of multiplicative reasoning This study developed twelve new sub levels that describe in more detail the multiplicative thinking of these fourth graders These new sub levels are Level 1 Non quantifier Level 1 Spontaneous Guesser Level 2 Keyword Finder Level 2 Counter Level 2 Adder Level 2 Quantifier Level 2 Measurer Level 3 Repeated Adder Level 3 Coordinator Level 4 Multiplier Level 4 Splitter and Level 5 Predictor This paper suggests that when teachers understand a child s method of deriving multiplying schemes and multiplicative reasoning strategies they are in a better position to provide the appropriate learning environment for the child Such interaction allows the listening teacher to build on the child s current level of mathematical understanding Students should be encouraged to discover for themselves the needed theorems definitions and mechanics of the number system and to personally develop any short cutting algorithms rather than simply being handed the algorithms by the instructor with little or no understanding

Abstract from author supplied metadata *Journal for Research in Mathematics Education* ,2015 Developing Mathematical Reasoning Pamela Weber Harris,2025-02-18 Math is not rote memorizable Math is not random guessable Math is figure out able Author Pam Harris argues that teaching real math math that is free of distortions will reach more students more effectively and result in deeper understanding and longer retention This book is about teaching undistorted math using the kinds of mental reasoning that mathematicians do Memorization tricks and algorithms meant to make math easier are full of traps that sacrifice long term student growth for short lived gains Students and teachers alike have been led to believe that they ve learned more and more math but in reality their brains never get any stronger Using these tricks may make facts easier to memorize in isolation but that very disconnect distorts the reality of math The mountain of trivia piles up until students hit a breaking point Humanity s most powerful system of understanding organizing and making an impact on the world becomes a soul draining exercise in confusion chaos and lost opportunities Developing Mathematical Reasoning Avoiding the Trap of Algorithms emphasizes the importance of teaching students increasingly sophisticated mathematical reasoning and understanding underlying concepts rather than relying on a set rule for solving problems This book illuminates a hierarchy of mathematical reasoning to help teachers guide students through various domains of math development from basic counting and adding to more complex proportional and functional reasoning Everyone is capable of understanding and doing real math This book Highlights the important mathematical relationships strategies and models for students to develop Offers personal stories reflection sections and extensive practical

exercises for easy implementation Includes real math a lot of it to provide teachers with examples they can put to use in their classrooms immediately This book is a valuable resource for educators looking to reach more students by building a strong foundation of mathematical thinking in their students By addressing common misconceptions about math and providing practical strategies for teaching real math this book shows that everyone can use the mathematical relationships they already know to reason about new relationships In other words everyone can math **Theory and Practice of Lesson Study in**

Mathematics Rongjin Huang,Akihiko Takahashi,João Pedro da Ponte,2019-05-28 This book brings together and builds on the current research efforts on adaptation conceptualization and theorization of Lesson Study LS It synthesizes and illustrates major perspectives for theorizing LS and enriches the conceptualization of LS by interpreting the activity as it is used in Japan and China from historical and cultural perspectives Presenting the practices and theories of LS with practicing teachers and prospective teachers in more than 10 countries it enables the reader to take a comparative perspective Finally the book presents and discusses studies on key aspects of LS such as lesson planning post lesson discussion guiding theories connection between research and practice and upscaling Lesson Study which has originated in Asia as a powerful effective professional development model has spread globally Although the positive effects of lesson study on teacher learning student learning and curriculum reforms have been widely documented conceptualization of and research on LS have just begun to emerge This book including 38 chapters contributed by 90 scholars from 21 countries presents a truly international collaboration on research on and adaptation of LS and significantly advances the development of knowledge about this process Chapter 15 How Variance and Invariance Can Inform Teachers Enactment of Mathematics Lessons of this book is available open access under a CC BY 4 0 license at link springer com Theory and Practice of Lesson Study in Mathematics An International Perspective shows that the power of Lesson Study to transform the role of teachers in classroom research cannot be explained by a simple replication model Here we see Lesson Study being successful internationally when its key principles and practices are taken seriously and are adapted to meet local issues and challenges Max Stephens Senior research fellow at TheUniversity of Melbourne It works Instruction improves learning improves Wide scale Enduring Deep impact Lesson study has it When something works as well as lesson study does while alternative systems for improving instruction fail or only succeed on small scale or evaporate as quickly as they show promise it is time to understand how and why lesson study works This volume brings the research on lesson study together from around the world Here is what we already know and here is the way forward for research and practice informed by research It is time to wake up and pay attention to what has worked so well on wide scale for so long Phil Dara A leading author of the Common Core State Standards of Mathematics in the U S *For the Learning of Mathematics* ,2007 Math Instruction for Students with Learning Difficulties Susan Perry Gurganus,2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and

competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction

Helping Children Learn Mathematics, 5th Australian Edition Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Leicha Bragg, Audrey Cooke, Melissa Fanshawe, Mark Gronow, 2025-10-10 **Mathematics Teaching in the Middle School**, 2004 **Teaching Learners who Struggle with Mathematics** Helene J. Sherman, Lloyd I. Richardson, George J. Yard, 2009 This book was written to give teachers the tools they need to help students go from believing they can't do math to achieving real success and gaining confidence in their math skills This can be accomplished if parents and teachers instead of trying the same thing over and over again focus on how their students learn best To do this the authors present a systematic three step approach on how to assess student's strengths and weaknesses and then plan instruction accordingly The three step plan involves 1 Creating a Data Analysis Sheet DAS 2 Considering the learners strengths and areas of concern 3 Completing a Mathematics Improvement Plan MIP Each chapter deals with a different mathematical topic place value problem solving fractions addition subtraction division decimals time and money etc A number of errors by a variety of students are described using a case study of a typical struggling student The text then explains how teachers can systematically assess the student's work and appropriately diagnose their problems By analyzing and understanding why and how their students make errors teachers can design appropriate ways to correct their mistakes and then promote long term learning through repetition and practice that is meaningful to them This book addresses mathematics education in a manner that encourages positive content growth and attitude for both teachers and students

How to Do Math with Words William C. Zahner, 2011 **Historical Perspectives for the Reform of Mathematics Curriculum** David Dennis, 1995 **The Teaching of Mathematics to Low Performing Students in Secondary Urban Classrooms** Francine M. Roy, 2000 **Middle School Mathematics Students' Motivations for Participating in Whole-class Discussions** Amanda Jansen Hoffmann, 2004 *International Journal of Mathematical and Statistical Sciences*, 1995 **Commitment to Excellence** Linda Anne Catelli, Ann C. Diver-Stamnes, 2002 This volume represents a working commitment by individuals and institutions to improve the education of inner city youngsters and to transform radically the preparation of people who will teach in the inner city The authors propose actions that are designed to direct teaching in the inner city Proceedings of the ... International Conference for the Psychology of Mathematics Education, 1998 **The Effect of Metacognitive Strategy Scaffolding on Student Achievement in Solving Complex Math World Problems**

Joan J. Marge, 2001

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