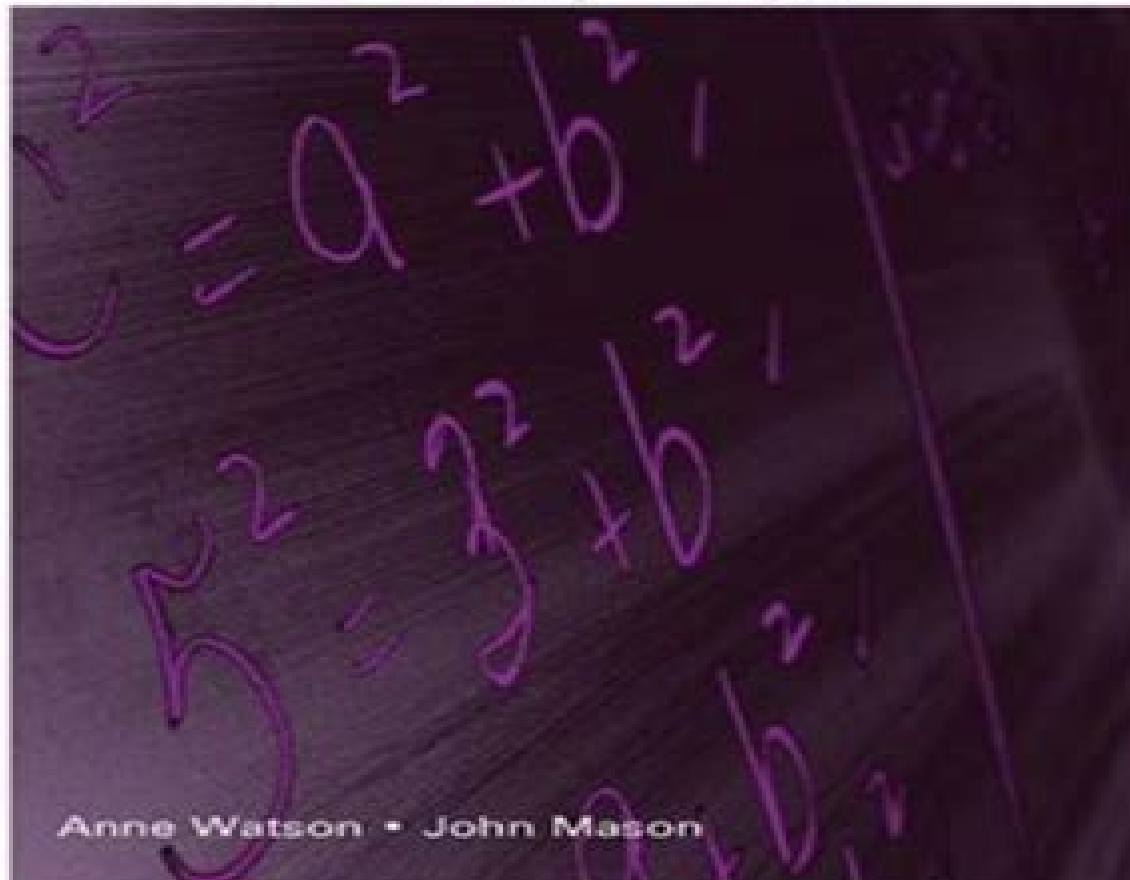


# Mathematics as a Constructive Activity

*Learners Generating Examples*



Anne Watson • John Mason

# Mathematics As A Constructive Activity Learners Generating Examples

**Akihiko Takahashi, Geoffrey Wake**



## **Mathematics As A Constructive Activity Learners Generating Examples:**

Mathematics as a Constructive Activity Anne Watson, John Mason, 2006-04-21 Explains and demonstrates the role of examples in the teaching and learning of mathematics and their place in mathematics generally at all levels Includes a combination of exercises for the reader practical applications for teaching and solid scholarly grounding *Creativity in Mathematics and the Education of Gifted Students* Roza Leikin, Abraham Berman, Boris Koichu, 2009-01-01 This book breaks through in the field of mathematical creativity and giftedness It suggests directions for closing the gap between research in the field of mathematics education and research in the field of creativity and giftedness It also outlines a research agenda for further research and development in the field The book consists of a balanced set of chapters by mathematicians mathematics educators educational psychologists and educational researchers The authors of different chapters accept dynamic conception of creativity and giftedness The book provides analysis of cognitive affective and social factors associated with the development of creativity in all students and with the realisation of mathematical talent in gifted students It contains theoretical essays research reports historical overviews recommendations for curricular design and insights about promotion of mathematical creativity and giftedness at different levels The readers will find many examples of challenging mathematical problems intended at developing or examining mathematical creativity and giftedness as well as ideas for direct implementation in school and tertiary mathematics courses They will also find theoretical models that can be used in researching students creativity and giftedness Research reports enlighten relationships between excellence in mathematics and creativity and examine different aspects of inquiry based environment as a powerful way for developing mathematical creativity in school students The readers can also learn about characteristics of creativity of research mathematicians

**Mathematical Action & Structures of Noticing** ,2009-01-01 John Mason has been a prominent figure in the research field of mathematics education for several decades His principal focus has been thinking about mathematical problems supporting those who wish to foster and sustain their own thinking and the thinking of others Among the many markers of his esteemed career was the 1984 publication of *Thinking Mathematically* with Leone Burton and Kaye Stacey It has become a classic in the field having been translated into many languages and in use in countries around the world *Thinking Mathematically* and other writings in his substantial body of work are used with advanced high school students with pre service and practicing teachers and by researchers who are interested in the nature of doing and learning mathematics This book is not and at the same time is a tribute to the enormous contributions made by Mason to mathematics education It is not a tribute book because every chapter is a report of research and thinking by the authors not simply a statement of appreciation All engage with how others have taken Mason s ideas forward to extend their own research and thinking At the same time it is a tribute book It is about how research and teaching has been inspired by Mason through his substantial opus and his vibrant presence in a network of mathematics educators **The Mathematics Practitioner's Guidebook for**

**Collaborative Lesson Research** Akihiko Takahashi, Geoffrey Wake, 2023-10-04 This resource provides mathematics educators with tools for conducting Collaborative Lesson Research CLR a form of Lesson Study developed out of the original Japanese Lesson Study and intended to improve student and teacher learning Renowned mathematics education researchers Akihiko Takahashi and Geoffrey Wake bring together educators across the US and UK with first hand experience using CLR in their schools Readers will learn the essentials for an impactful Lesson Study directly from the scholars who coined the term and benefit from the dual perspectives of math education researchers and teachers who have used CLR when reflecting on their own classroom pedagogy These contributors define CLR and provide examples of successful CLR using real life case studies as well as introducing pathways for getting started and practical suggestions for implementation into different school environments Across these examples readers will understand the essence of Lesson Study considered as CLR and its important features be advised what participants in CLR should expect to do observing research lessons designing lessons teaching research lessons facilitating post lesson discussion etc and provide guidance and support with this enactment be advised on how to develop embed and sustain CLR communities preview potential outcomes over time from undertaking CLR Research lesson proposals and plans to support readers in understanding CLR are also included Ideal for practicing teachers teacher leaders teacher educators and professional developers involved in mathematics teaching this book offers first of its kind entry points for CLR Its combination of theory and practice will empower educators to implement this increasingly popular vehicle for understanding students learning of mathematics

**A Focus on Fractions** Marjorie M. Petit, Robert E. Laird, Caroline B. Ebby, Edwin L. Marsden, 2022-07-29 The third edition of this book offers a unique approach to making mathematics education research on the teaching and learning of fraction concepts readily accessible and understandable to pre service and in service K 8 mathematics teachers Revealing students thought processes with extensive annotated samples of student work and vignettes characteristic of classroom teachers experience this book provides teachers a research based lens to interpret evidence of student thinking inform instruction and ultimately improve student learning Based on research gathered in the Ongoing Assessment Project OGAP and updated throughout this engaging and easy to use resource also features Two new chapters dedicated to understanding the OGAP Fraction Framework and Progression based on research conducted with hundreds of teachers to gather and interpret evidence of student learning along a learning progression referenced throughout the book so readers can apply the concepts to their instruction A close focus on student work including 180 annotated pieces of student work to help teachers improve their ability to recognize assess and monitor their students errors and misconceptions as well as their developing conceptual understanding A discussion of decimal fractions also new to the third edition In chapter sections on how Common Core State Standards for Math CCSSM are supported by math education research End of chapter Looking Back questions to allow teachers to analyze student thinking and consider instructional strategies for their own students Instructional links to help teachers relate concepts from each chapter to their

own instructional materials and programs Accompanying online Support Material includes an answer key to Looking Back questions as well as a copy of the OGAP Fraction Framework and Progression A Focus on Fractions is part of the popular A Focus on collection designed to aid the professional development of pre service and in service mathematics teachers As with the other volumes on addition and subtraction ratios and proportions and multiplication and division this updated new edition bridges the gap between what math education researchers know and what teachers need to know in order to better understand evidence in student work and make effective instructional decisions

**Visual Mathematics and Cyberlearning** Dragana Martinovic, Viktor Freiman, Zekeriya Karadag, 2012-12-24 This first book in the series will describe the Net Generation as visual learners who thrive when surrounded with new technologies and whose needs can be met with the technological innovations These new learners seek novel ways of studying such as collaborating with peers multitasking as well as use of multimedia the Internet and other Information and Communication Technologies Here we present mathematics as a contemporary subject that is engaging exciting and enlightening in new ways For example in the distributed environment of cyber space mathematics learners play games watch presentations on YouTube create Java applets of mathematics simulations and exchange thoughts over the Instant Messaging tool How should mathematics education resonate with these learners and technological novelties that excite them

**Diagnostic Competence of Mathematics Teachers** Timo Leuders, Kathleen Philipp, Juliane Leuders, 2017-11-09 This book examines the various areas of mathematics education and neighboring disciplines that have recently contributed to a better understanding of the still vague construct of diagnostic competence The work addresses the nature development and effect of diagnostic competence in mathematics instruction with a focus on the professional development of teachers

**Algebra in the Early Grades** James J. Kaput, David W. Carraher, Maria L. Blanton, 2017-09-25 This volume is the first to offer a comprehensive research based multi faceted look at issues in early algebra In recent years the National Council for Teachers of Mathematics has recommended that algebra become a strand flowing throughout the K 12 curriculum and the 2003 RAND Mathematics Study Panel has recommended that algebra be the initial topical choice for focused and coordinated research and development in K 12 mathematics This book provides a rationale for a stronger and more sustained approach to algebra in school as well as concrete examples of how algebraic reasoning may be developed in the early grades It is organized around three themes The Nature of Early Algebra Students Capacity for Algebraic Thinking Issues of Implementation Taking Early Algebra to the Classrooms The contributors to this landmark volume have been at the forefront of an effort to integrate algebra into the existing early grades mathematics curriculum They include scholars who have been developing the conceptual foundations for such changes as well as researchers and developers who have led empirical investigations in school settings Algebra in the Early Grades aims to bridge the worlds of research practice design and theory for educators researchers students policy makers and curriculum developers in mathematics education

**Bringing Out the Algebraic Character of Arithmetic**

Analúcia D. Schliemann, David W. Carraher, Bárbara M. Brizuela, 2006-08-29 Bringing Out the Algebraic Character of Arithmetic contributes to a growing body of research relevant to efforts to make algebra an integral part of early mathematics instruction an area of studies that has come to be known as Early Algebra It provides both a rationale for promoting algebraic reasoning in the elementary school curriculum and empirical data to support it The authors regard Early Algebra not as accelerated instruction but as an approach to existing topics in the early mathematics curriculum that highlights their algebraic character Each chapter shows young learners engaged in mathematics tasks where there has been a shift away from computations on specific amounts toward thinking about relations and functional dependencies The authors show how young learners attempt to work with mathematical generalizations before they have learned formal algebraic notation The book suitable as a text in undergraduate or graduate mathematics education courses includes downloadable resources with additional text and video footage on how students reason about addition and subtraction as functions on how students understand multiplication when it is presented as a function and on how children use notations in algebraic problems involving fractions These three videopapers written text with embedded video footage present relevant discussions that help identify students mathematical reasoning The printed text in the book includes transcriptions of the video episodes in the CD ROM Bringing Out the Algebraic Character of Arithmetic is aimed at researchers practitioners curriculum developers policy makers and graduate students across the mathematics education community who wish to understand how young learners deal with algebra before they have learned about algebraic notation      **Preschool**

**Geometry** Esther Levenson, Dina Tirosh, Pessia Tsamir, 2012-01-01 Recently the issue of early childhood mathematics has come to the fore and with it the importance of teaching geometrical concepts and reasoning from a young age Geometry is a key domain mentioned in many national curricula and may also support the learning of other mathematical topics such as number and patterns This book is based on the rich experience research and practice of the authors and is devoted entirely to the learning and teaching of geometry in preschool The first part of the book is dedicated to children s geometrical thinking building concept images in line with concept definitions and the dilemmas that arise in the process The second part focuses on geometrical tasks and their role in developing and assessing geometrical reasoning The third part focuses on teaching geometry to young children Each of the three parts is structured in a similar manner beginning with general theory and research continuing with specific examples related to those theories and moving on to elements of actual practice Written in a meaningful yet enjoyable manner any person who has an interest in the mathematics education of preschool children be it parents caregivers teachers teacher educators and researchers will find this book relevant      *The Role of the History of Mathematics in the Teaching/Learning Process* Sixto Romero Sanchez, Ana Serradó Bayés, Peter Appelbaum, Gilles Aldon, 2023-06-15 This volume presents multiple perspectives on the uses of the history of mathematics for teaching and learning including the value of historical topics in challenging mathematics tasks for provoking teachers reflection on the

nature of mathematics curriculum development questions that mirror earlier pedagogical choices in the history of mathematics education and the history of technological innovations in the teaching and learning of mathematics An ethnomathematical perspective on the history of mathematics challenges readers to appreciate the role of mathematics in perpetuating consequences of colonialism Histories of the textbook and its uses offer interesting insights into how technology has changed the fundamental role of curriculum materials and classroom pedagogies History is explored as a source for the training of teachers for good puzzles and problems and for a broad understanding of mathematics education policy Third in a series of sourcebooks from the International Commission for the Study and Improvement of Mathematics Teaching this collection of cutting edge research stories from the field and policy implications is a contemporary and global perspective on current possibilities for the history of mathematics for mathematics education This latest volume integrates discussions regarding history of mathematics history of mathematics education and history of technology for education that have taken place at the Commission's recent annual conferences

Statistical Literacy at School Jane M. Watson, 2013-05-13 This book reveals the development of students understanding of statistical literacy It provides a way to see student thinking and gives readers a deeper sense of how students think about important statistical topics Intended as a complement to curriculum documents and textbook series it is consistent with the current principles and standards of the National Council of Teachers of Mathematics The term statistical literacy is used to emphasize that the purpose of the school curriculum should not be to turn out statisticians but to prepare statistically literate school graduates who are prepared to participate in social decision making Based on ten years of research with reference to other significant research as appropriate the book looks at students thinking in relation to tasks based on sampling graphical representations averages chance beginning inference and variation which are essential to later work in formal statistics For those students who do not proceed to formal study as well as those who do these concepts provide a basis for decision making or questioning when presented with claims based on data in societal settings Statistical Literacy at School Growth and Goals establishes an overall framework for statistical literacy in terms of both the links to specific school curricula and the wider appreciation of contexts within which chance and data handling ideas are applied demonstrates within this framework that there are many connections among specific ideas and constructs provides tasks adaptable for classroom or assessment use that are appropriate for the goals of statistical literacy presents extensive examples of student performance on the tasks illustrating hierarchies of achievement to assist in monitoring gains and meeting the goals of statistical literacy and includes a summary of analysis of survey data that suggests a developmental hierarchy for students over the years of schooling with respect to the goal of statistical literacy Statistical Literacy at School Growth and Goals is directed to researchers curriculum developers professionals and students in mathematics education as well those across the curriculum who are interested in students cognitive development within the field to teachers who want to focus on the concepts involved in statistical literacy without the use of formal statistical

techniques and to statisticians who are interested in the development of student understanding before students are exposed to the formal study of statistics

**Becoming a Reflective Mathematics Teacher** Alice F. Artzt, Eleanor Armour-Thomas, Frances R. Curcio, Theresa J. Gurl, Mara P. Markinson, 2025-08-01 This research based activity oriented guide offers a highly effective framework for teacher reflection and self assessment Highlighting inquiry based learner centered teaching and grounded in a cognitive perspective this fourth edition features Updated observation instruments for preservice or beginning teachers to use when observing other teachers Additional guidelines instruments and rubrics for supervisors to use when observing conferencing with and assessing beginning or student teachers Added focus on teaching for understanding via engagement and critical thinking Chapter specific updates include updated research literature refinements to Tables 2 1 and 3 1 for depth and clarity and updated examples of student work Thoroughly revised throughout the fourth edition continues to provide preservice mathematics teachers with practical ideas for developing and honing reflective and self analytical skills needed to advance and improve their instructional practice

**A Focus on Addition and Subtraction** Caroline Ebby, Elizabeth Hulbert, Rachel Broadhead, 2020-11-23 This innovative text offers a unique approach to making mathematics education research on addition subtraction and number concepts readily accessible and understandable to pre service and in service teachers of grades K 3 Revealing students thought processes with extensive annotated samples of student work and vignettes characteristic of teachers experiences this book provides educators with the knowledge and tools needed to modify their lessons and improve student learning of additive reasoning in the primary grades Based on research gathered in the Ongoing Assessment Project OGAP this engaging easy to use resource features practical resources such as A close focus on student work including 150 annotated pieces of student work to help teachers improve their ability to recognize assess and monitor their students errors and misconceptions as well as their developing conceptual understanding A focus on the OGAP Addition Subtraction and Base Ten Number Progressions based on research conducted with hundreds of teachers and thousands of pieces of student work In chapter sections on how Common Core State Standards for Math CCSSM are supported by math education research End of chapter questions to allow teachers to analyze student thinking and consider instructional strategies for their own students Instructional links to help teachers relate concepts from each chapter to their own instructional materials and programs An accompanying eResource available online offers an answer key to Looking Back questions as well as a copy of the OGAP Additive Framework and the OGAP Number Line Continuum A Focus on Addition and Subtraction marks the fourth installment of the popular A Focus on collection designed to aid the professional development of pre service and in service mathematics teachers Following from previous volumes on ratios and proportions multiplication and division and fractions this newest addition is designed to bridge the gap between what math education researchers know and what teachers need to know in order to better understand evidence in student work and make effective instructional decisions

*Mathematicians' Reflections on Teaching* Sepideh

Stewart,2023-08-07 This book opens the case on collaboration among mathematicians and mathematics educators The authors of this book provide their research and experience based insights on collaboration to inspire the young generation of the mathematics community to engage in productive collaborations and exchange of knowledge early in their careers These valuable collaborations are anticipated to generate innovative research questions that set new and novel paths for mathematics education research with ample possibilities yet to be realized and discovered A Focus on Ratios and Proportions Marjorie M. Petit,Robert E. Laird,Matthew F. Wyneken,Frances R. Huntoon,Mary D. Abele-Austin,Jean D.

Sequeira,2020-05-17 This resource offers a groundbreaking effort to make mathematics education research on ratios and proportions readily accessible and understandable to preservice and in service teachers of grades 6 to 8 Using extensive annotated samples of student work and based on research gathered in the Ongoing Assessment Project OGAP A Focus on Ratios and Proportions teaches readers how students develop understanding and fluency involving ratio and proportion concepts Special features include A close focus on student work including 150 annotated pieces of student work to help teachers improve their ability to recognize assess and monitor their students errors and misconceptions as well as their developing conceptual understanding A focus on the OGAP Ratios and Proportions Progression based on research conducted with hundreds of teachers and thousands of pieces of student work Sections on how Common Core State Standards for Math CCSSM are supported by math education research Student work samples and vignettes to illuminate the research as well as end of chapter Looking Back questions and Instructional Links which allow teachers to analyze evidence of student thinking and strategies and consider instructional responses An accompanying eResource available online offers an answer key as well as extensive explanation of the Looking Back questions Like A Focus on Multiplication and Division and A Focus on Fractions this book is designed to bridge the gap between what math education researchers know and what teachers need to know in order to better understand evidence in student work and make effective instructional decisions **Global**

**Perspectives and Practices for Reform-Based Mathematics Teaching** Kartal, Ozgul,Popovic, Gorjana,Morrissey, Susie,2022-04-22 Reform based mathematics has become a popular topic in the education field as this teaching emphasizes classroom discourse and instructional goals related to student engagement and an understanding of mathematical reasoning concepts and procedures using instructional practices that build on students informal knowledge of mathematics It also connects mathematics with other disciplines and the real world and provides opportunities for students to contribute and invent their own methods during problem solving Further study on the best practices benefits and challenges of implementing this teaching into education is required Global Perspectives and Practices for Reform Based Mathematics Teaching explores international perspectives on diverse reform based practices in teaching and learning mathematics describes challenges and issues for teachers and teacher educators promotes reflection and academic discussion at various levels and in various educational systems and raises questions for the field of mathematics education Covering a range of

topics such as teacher preparation programs and integrated learning spaces this reference work is ideal for academicians practitioners researchers instructors educators and students

Computational Experiment Approach to Advanced Secondary Mathematics Curriculum Sergei Abramovich, 2014-05-08 This book promotes the experimental mathematics approach in the context of secondary mathematics curriculum by exploring mathematical models depending on parameters that were typically considered advanced in the pre digital education era This approach by drawing on the power of computers to perform numerical computations and graphical constructions stimulates formal learning of mathematics through making sense of a computational experiment It allows one in the spirit of Freudenthal to bridge serious mathematical content and contemporary teaching practice In other words the notion of teaching experiment can be extended to include a true mathematical experiment When used appropriately the approach creates conditions for collateral learning in the spirit of Dewey to occur including the development of skills important for engineering applications of mathematics In the context of a mathematics teacher education program the book addresses a call for the preparation of teachers capable of utilizing modern technology tools for the modeling based teaching of mathematics with a focus on methods conducive to the improvement of the whole STEM education at the secondary level By the same token using the book's pedagogy and its mathematical content in a pre college classroom can assist teachers in introducing students to the ideas that develop the foundation of engineering profession

**The Handbook of Mathematics Teacher Education: Volume 1**, 2008-01-01 The Handbook of Mathematics Teacher Education the first of its kind addresses the learning of mathematics teachers at all levels of schooling to teach mathematics and the provision of activity and programmes in which this learning can take place It consists of four volumes VOLUME 1 Knowledge and Beliefs in Mathematics Teaching and Teaching Development addresses the what of mathematics teacher education meaning knowledge for mathematics teaching and teaching development and consideration of associated beliefs As well as synthesizing research and practice over various dimensions of these issues it offers advice on best practice for teacher educators university decision makers and those involved in systemic policy development on teacher education

*Invited Lectures from the 13th International Congress on Mathematical Education* Gabriele Kaiser, Helen Forgasz, Mellony Graven, Alain Kuzniak, Elaine Simmt, Binyan Xu, 2018-02-05 The book presents the Invited Lectures given at 13th International Congress on Mathematical Education ICME 13 ICME 13 took place from 24th 31st July 2016 at the University of Hamburg in Hamburg Germany The congress was hosted by the Society of Didactics of Mathematics Gesellschaft f r Didaktik der Mathematik GDM and took place under the auspices of the International Commission on Mathematical Instruction ICMI ICME 13 the biggest ICME so far brought together about 3500 mathematics educators from 105 countries additionally 250 teachers from German speaking countries met for specific activities The scholars came together to share their work on the improvement of mathematics education at all educational levels The papers present the work of prominent mathematics educators from all over the globe and give insight into the current

discussion in mathematics education The Invited Lectures cover a wide spectrum of topics themes and issues and aim to give direction to future research towards educational improvement in the teaching and learning of mathematics education This book is of particular interest to researchers teachers and curriculum developers in mathematics education

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