

# INTRODUCTION TO FRACTIONS

*inquiry based math activity*

Name \_\_\_\_\_

Date \_\_\_\_\_

What connections do you see between the fraction model and the fraction number line?

Can you make a rule or system for how to make a fraction number line to match a fraction model?

**3RD GRADE**

an example



# Math Inquiry Lessons For Fractions

**Hilda Borko, Despina Potari**



## **Math Inquiry Lessons For Fractions:**

**Teaching Powerful Problem-Solving in Math** Catherine C. Lewis, Akihiko Takahashi, Shelley Friedkin, Nora Houseman, Sara Liebert, 2025-08-22 Teaching Powerful Problem Solving in Math provides the first in depth portrait of schoolwide lesson study showing how U S teachers at several schools used it to implement powerful problem based mathematics instruction Students learn mathematics by confronting a novel problem and building the new understanding of the mathematical concepts needed to solve it just as mathematicians would By learning in this way students discover the power of their own thinking and gain confidence that extends well beyond mathematics This book introduces readers to urban elementary and K 8 schools where teachers have dramatically transformed math learning for teachers and for students Readers will follow teachers as they transform instruction using schoolwide lesson study building powerful new ways for educators to learn from each other and practice innovative teaching techniques The authors use in depth classroom portraits from the outset of schoolwide lesson study and three years later to illuminate the changes in mathematics instruction at a school that raised its proficiency on Smarter Balanced Assessment from 15% to 56% Extensive resources and links are provided to help readers understand and build on the work of these schools which is grounded in established principles of collective efficacy intrinsic motivation and learner agency for both students and teachers Book Features Shows how teaching through problem solving can erase the achievement gap in mathematics learning Provides the first in depth portrait of schoolwide lesson study showing how U S teachers at several schools build it and use it to transform teaching Profiles teachers leading the transformation of instruction to achieve the ambitious vision of learning embodied in recent standards Uses photographs student work and detailed classroom descriptions to bring to life mathematics lessons in year 1 and year 4 of the school s work to build problem solving Provides examples and links to the strategies teachers use to make student thinking visible and actionable during mathematics lessons Includes lesson plans photographs of board work student journals school newsletters self assessment rubrics and dozens of links to the resources needed to begin using teaching through problem solving and school wide lesson study Provides long term teacher led solutions for professional learning and for mathematics instruction that have been shown to improve teacher retention and student proficiency **Teaching**

**Mathematics in Grades 6 - 12** Randall E. Groth, 2012-08-10 A journey into the vibrant and intriguing world of mathematics education Teaching Mathematics in Grades 6 12 explores how research in mathematics education can inform teaching practice in grades 6 12 The author shows secondary mathematics teachers the value of being a researcher in the classroom by constantly experimenting with methods for developing students mathematical thinking and then connecting this research to practices that enhance students understanding of the material The chapters in Part I introduce secondary teachers to the field of mathematics education with cross cutting issues that apply to teaching and learning in all mathematics content areas The chapters in Part II are devoted to specific mathematics content strands and describe how students think about

mathematical concepts The goal of the text is to have secondary math teachers gain a deeper understanding of the types of mathematical knowledge their students bring to grade 6 12 classrooms and how students thinking may develop in response to different teaching strategies

**Differentiated Instruction for K-8 Math and Science** Mary Hamm,2013-10-18 This book offers practical recommendations to reach every student in a K 8 classroom Research based and written in a teacher friendly style it will help teachers with classroom organization and lesson planning in math and science Included are math and science games activities ideas and lesson plans based on the math and science standards This book will help your students to develop positive attitudes and raise competency in math and science

**Project-Based Learning in the Math Classroom** Telannia Norfar,Chris Fancher,2022-03-14 Project Based Learning in the Math Classroom Grades 3 5 explains how to keep inquiry at the heart of mathematics teaching in the upper elementary grades Helping teachers integrate other subjects into the math classroom this book outlines in depth tasks projects and routines to support Project Based Learning PBL Featuring helpful tips for creating PBL units alongside models and strategies that can be implemented immediately Project Based Learning in the Math Classroom Grades 3 5 understands that teaching in a project based environment means using great teaching practices The authors impart strategies that assist teachers in planning standards based lessons encouraging wonder and curiosity providing a safe environment where mistakes can occur and giving students opportunities for revision and reflection

*Fostering Children's Mathematical Power* Arthur Baroody,Arthur J. Baroody,Jesse L.M. Wilkins,Ronald T. Coslick,1998-09-01 Teachers have the responsibility of helping all of their students construct the disposition and knowledge needed to live successfully in a complex and rapidly changing world To meet the challenges of the 21st century students will especially need mathematical power a positive disposition toward mathematics curiosity and self confidence facility with the processes of mathematical inquiry problem solving reasoning and communicating and well connected mathematical knowledge an understanding of mathematical concepts procedures and formulas This guide seeks to help teachers achieve the capability to foster children s mathematical power the ability to excite them about mathematics help them see that it makes sense and enable them to harness its might for solving everyday and extraordinary problems The investigative approach attempts to foster mathematical power by making mathematics instruction process based understandable or relevant to the everyday life of students Past efforts to reform mathematics instruction have focused on only one or two of these aims whereas the investigative approach accomplishes all three By teaching content in a purposeful context an inquiry based fashion and a meaningful manner this approach promotes children s mathematical learning in an interesting thought provoking and comprehensible way This teaching guide is designed to help teachers appreciate the need for the investigative approach and to provide practical advice on how to make this approach happen in the classroom It not only dispenses information but also serves as a catalyst for exploring conjecturing about discussing and contemplating the teaching and learning of mathematics

Handbook of Research on Mathematics Teaching and Learning Douglas

Grouws,2006-11-01 Sponsored by the National Council of Teachers of Mathematics and written by leading experts in the field of mathematics education the Handbook is specifically designed to make important vital scholarship accessible to mathematics education professors graduate students educational researchers staff development directors curriculum supervisors and teachers The Handbook provides a framework for understanding the evolution of the mathematics education research field against the backdrop of well established conceptual historical theoretical and methodological perspectives It is an indispensable working tool for everyone interested in pursuing research in mathematics education as the references for each of the Handbook s twenty nine chapters are complete resources for both current and past work in that particular area

**Handbook of International Research in Mathematics Education** Lyn D. English,David Kirshner,2015-07-30 This third edition of the Handbook of International Research in Mathematics Education provides a comprehensive overview of the most recent theoretical and practical developments in the field of mathematics education Authored by an array of internationally recognized scholars and edited by Lyn English and David Kirshner this collection brings together overviews and advances in mathematics education research spanning established and emerging topics diverse workplace and school environments and globally representative research priorities New perspectives are presented on a range of critical topics including embodied learning the theory practice divide new developments in the early years educating future mathematics education professors problem solving in a 21st century curriculum culture and mathematics learning complex systems critical analysis of design based research multimodal technologies and e textbooks Comprised of 12 revised and 17 new chapters this edition extends the Handbook s original themes for international research in mathematics education and remains in the process a definitive resource for the field

**Lesson Imaging in Math and Science** Michelle Stephan,David Pugalee,Julie Cline,Chris Cline,2016-10-26 From respected voices in STEM education comes an innovative lesson planning approach to help turn students into problem solvers lesson imaging In this approach teachers anticipate how chosen activities will unfold in real time what solutions questions and misconceptions students might have and how teachers can promote deeper reasoning When lesson imaging occurs before instruction students achieve lesson objectives more naturally and powerfully A successful STEM unit attends to activities questions technology and passions It also entails a careful detailed image of how each activity will play out in the classroom Lesson Imaging in Math and Science presents teachers with A process of thinking through the structure and implementation of a lesson A pathway to discovering ways to elicit student thinking and foster collaboration An opportunity to become adept at techniques to avoid shutting down the discussion either by prematurely giving or acknowledging the right answer or by casting aside a wrong answer Packed with classroom examples lesson imaging templates and tips on how to start the process this book is sure to help teachers anticipate students ideas and questions and stimulate deeper learning in science math engineering and technology

**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](https://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 The University 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 **Teaching Science Today 2nd Edition** Kathleen N. Kopp, 2014-11-01 Implement engaging science instruction that intrigues motivates and supports students toward becoming scientifically literate This second edition takes a deep dive into Next Generation Science Standards to help teachers enhance their approach to teaching science concepts skills and processes Based on solid research this teacher friendly resource is ideal for pre service educators new teachers or anyone seeking to improve their practice This valuable resource is a must have Third International Handbook of Mathematics Education M.A. (Ken) Clements, Alan Bishop, Christine Keitel-Kreidt, Jeremy Kilpatrick, Frederick Koon-Shing Leung, 2012-11-15 The four sections in this Third International Handbook are concerned with a social political and cultural dimensions in mathematics education b mathematics education as a field of study c technology in the mathematics curriculum and d international perspectives on

mathematics education These themes are taken up by 84 internationally recognized scholars based in 26 different nations Each of section is structured on the basis of past present and future aspects The first chapter in a section provides historical perspectives How did we get to where we are now the middle chapters in a section analyze present day key issues and themes Where are we now and what recent events have been especially significant and the final chapter in a section reflects on policy matters Where are we going and what should we do Readership Teachers mathematics educators ed policy makers mathematicians graduate students undergraduate students Large set of authoritative international authors *Teaching Science Today* Kathleen Kopp,2014-11-01 Implement engaging science instruction that intrigues motivates and supports students toward becoming scientifically literate This second edition takes a deep dive into Next Generation Science Standards to help teachers enhance their approach to teaching science concepts skills and processes Based on solid research this teacher friendly resource is ideal for pre service educators new teachers or anyone seeking to improve their practice This valuable resource is a must have **The Wiley Handbook of Action Research in Education** Craig A. Mertler,2019-02-06 Comprehensive overview of the theoretical conceptual and applied practical presentations of action research as it is found and conducted solely in educational settings The Wiley Handbook of Action Research in Education is the first book to offer theoretical conceptual and applied practical presentations of action research as it is found and conducted solely in educational settings Covering primarily PK 12 educational settings the book utilizes a cross section of international authors and presentations to provide global perspectives on action research in education Part I of The Wiley Handbook of Action Research in Education focuses on various foundational aspects and issues related to action research Part II is centered on chapters that present theories and principles that help to guide the use of action research in educational contexts Part III focuses on specific applications of educational action research in practice Part IV provides an outlet for seven educational practitioners to share their experiences in conducting action research Each of these authors also discusses the importance and value that action research has had on him or her both professionally and personally Discuss action research in PK 12 as well as in higher education settings The first book to focus on the importance and application of action research exclusively in educational settings Offers world perspectives on action research in education Written by a team of international scholars The Wiley Handbook of Action Research in Education is an excellent book for advanced undergraduate students graduate students and scholars studying and or researching educational action research **Teachers of Mathematics Working and Learning in Collaborative Groups** Hilda Borko, Despina Potari,2024-06-03 This open access book is the product of an international study which offers a state of the art summary of mathematics teacher collaboration with respect to theory research practice and policy The authors leading researchers and teachers on mathematics teacher collaboration represent a wide range of countries and cultures Chapters explore the various forms of teacher collaboration the diversity of settings and groupings in which mathematics teacher collaboration occurs the tools and resources that

support mathematics teacher collaboration and are the product of collaboration and the breadth of outcomes of such collaboration Teachers experiences and learning in collaborative settings are represented through their own voices as well as the voices of researchers Forms and outcomes of collaboration are considered through a variety of theoretical perspectives and methodological approaches The authors reflect on the policy implications of this work and suggest new directions of research that take into account contextual cultural national and political dimensions that impact teachers work and learning through collaboration The book is a valuable resource for researchers practitioners and policy makers who are interested in the power of teacher collaboration and its history and potential for promoting educational innovations and equitable experiences for all teachers and learners      *Theories of Mathematical Learning* Leslie P. Steffe, Pearla Nesher, Paul Cobb, Bharath Sriraman, Brian Greer, 2013-04-03 Chemists working with only mortars and pestles could not get very far unless they had mathematical models to explain what was happening inside of their elements of experience an example of what could be termed mathematical learning This volume contains the proceedings of Work Group 4 Theories of Mathematics a subgroup of the Seventh International Congress on Mathematical Education held at Universit Laval in Qu bec Bringing together multiple perspectives on mathematical thinking this volume presents elaborations on principles reflecting the progress made in the field over the past 20 years and represents starting points for understanding mathematical learning today This volume will be of importance to educational researchers math educators graduate students of mathematical learning and anyone interested in the enterprise of improving mathematical learning worldwide      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      *Resources in Education* , 1999-10      Talent Development in School Julie Dingle Swanson, Meta Van Sickle, 2021-09-23 Talent Development in School helps educators utilize research based curriculum and strategies to implement talent development in the classroom This practical guide Focuses on a talent development model that is centered on teacher learning Highlights talent development s impact on culturally linguistically and economically diverse learners Details how to apply the talent development model in one s school or district and opening access and opportunity to all students Reviews current theories concepts and research on talent development in the field of gifted education Is perfect for



teachers coordinators and administrators Talent Development in School features techniques for culturally responsive teaching and considerations for how psychosocial skills and noncognitive influences on learning such as motivation grit resiliency and growth mindset affect talent development Written by experts in the field this book will become a go to for professional learning and development      *Transformation of Knowledge Through Classroom Interaction* Baruch Schwarz,Tommy Dreyfus,Rina Hershkowitz,2009-05-07 Transformation of Knowledge through Classroom Interaction examines and evaluates different ways which have been used to support students learning in classrooms      Cases on Web 2.0 in Developing Countries: Studies on Implementation, Application, and Use Azab, Nahed Amin,2012-11-30 As the majority of the world continues to move into an internet based society we have seen significant social cultural economic and technological changes Most developing countries have embraced Web 2 0 and have moved onto the next generation of the World Wide Web however some developing countries still struggle to bridge the digital divide Cases on Web 2 0 in Developing Countries Studies on Implementation Application and Use investigates the perception of the value of Web 2 0 the adoption and application of its technologies as well as the different approaches and innovations necessary for the implementation of Web applications in developing countries

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