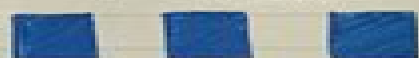


# multiplication properties

## identity property

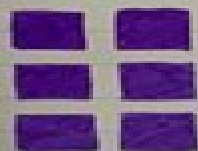
The product of 1 any  
any number equals  
that number.



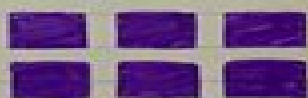
$$3 \times 1 = 3$$

## commutative property

When you multiply  
two factors in any  
order the product  
is the same.



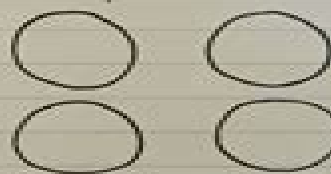
$$3 \times 2 = 6$$



$$2 \times 3 = 6$$

## zero property

The product of zero  
and any number is 0.



$$4 \times 0 = 0$$

## associative property

When you group  
factors in different  
ways the product  
is the same.



$$(2 \times 2) \times 4 = \square$$
$$4 \times 4 = 16$$



$$2 \times (2 \times 4) = \square$$
$$2 \times 8 = 16$$

# 3rd Grade Multiplication Properties Lesson Plans

**Robert E. Reys**



### 3rd Grade Multiplication Properties Lesson Plans:

Mathematics Unit Planning in a PLC at Work®, Grades 3--5 Sarah Schuhl, Timothy D. Kanold, Jennifer Deinhart, Matthew R. Larson, Mona Toncheff, 2020-03-24 Build collaborative teacher teams committed to fostering student self efficacy and increasing achievement in mathematics Part of the Every Student Can Learn Mathematics series this practical resource provides a framework for collectively planning a unit of study in grades 3 5 Grade level teams will learn how to work together to perform key tasks from unwrapping standards and creating team unit calendars to determining academic vocabulary and designing robust fraction units Help your team identify what students need to know by the end of each unit and build student self efficacy Understand how to collaboratively plan thematic units in grades 3 5 Study the seven unit planning elements and learn how to incorporate each in essential unit design Review the role of the PLC at Work process in enhancing collaborative student learning and teacher collaboration Observe three model fraction units one for each grade level Receive tools and templates for effective unit planning Contents Introduction by Timothy D Kanold Part 1 Mathematics Unit Planning and Design Elements Chapter 1 Planning for Student Learning of Mathematics in Grades 3 5 Chapter 2 Unit Planning as a Collaborative Mathematics Team Part 2 Fraction Unit Examples Grades 3 5 Chapter 3 Grade 3 Unit Fraction Understanding Chapter 4 Grade 4 Unit Fraction Equivalence Addition and Subtraction Chapter 5 Grade 5 Unit Fraction Addition and Subtraction Epilogue Mathematics Team Organization Appendix A Create a Proficiency Map Appendix B Checklist and Questions for Mathematics Unit Planning References and Resources *Building Academic Language through Content-Area Text* Erica Bowers, Laura Keisler, 2011-04-01 Set the stage for effective academic language instruction with strategies that are designed specifically for English language learners and support instruction in content area vocabulary The teacher friendly format includes strategy descriptions rationale and resources for easy implementation Each strategy features examples for different grade levels and content areas Complete sample lessons demonstrate how strategies can support content area literacy using informational text This resource is correlated to College and Career Readiness and other state standards and includes digital resources **Common Core Mathematics in a PLC at Work®, Grades 3-5** Timothy D. Kanold, 2012-04-12 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics grades 3 5 Discover what students should learn and how they should learn it at each grade level Comprehensive research affirmed analysis tools and strategies will help you and your collaborative team develop and assess student demonstrations of deep conceptual understanding and procedural fluency *Teaching Multiplication with Lesson Study* Masami Isoda, Raimundo Olfos, 2020-11-23 This open access book is intended to assist teachers teacher trainers curriculum designers editors and authors of textbooks in developing strategies to teach the multiplication of natural numbers based on the experience of the Lesson Study in Japan This approach to mathematics education dates back to the 1870s and reconciles the emphasis on problem solving with the treatment of the curricular contents It has gained international

recognition since the 1990s and thanks to it mathematics education in Japan has been recognized as one of the most efficient and innovative in the world This growing international awareness has led to an effort to apply the principles of Lesson Study to other parts of the world and this book shows how experienced authors from Brazil Chile Mexico Spain and Portugal have worked to adapt some of these methods and techniques to the Portuguese and Spanish speaking countries of Ibero America Drawing on the impact of Lesson Study on government curriculum decisions and teacher behavior in Japanese classrooms offering examples of lessons lesson plans and suggestions for teaching and presenting examples of the good reception of the principles of Lesson Study in Ibero America Teaching Multiplication with Lesson Study Japanese and Ibero American Theories for Mathematics Education shows how an efficient and cutting edge experience in mathematics education can travel the world and help teachers in many different countries

**Teaching Mathematics in the Visible Learning Classroom, Grades 3-5** John Almarode, Douglas Fisher, Kateri Thunder, Sara Delano Moore, John Hattie, Nancy Frey, 2019-02-13 It could happen in the morning during homework review Or perhaps it happens when listening to students as they struggle through a challenging problem Or maybe even after class when planning a lesson At some point the question arises How do I influence students learning what s going to generate that light bulb aha moment of understanding In this sequel to the megawatt best seller Visible Learning for Mathematics John Almarode Douglas Fisher Nancy Frey John Hattie and Kateri Thunder help you answer that question by showing how Visible Learning strategies look in action in the mathematics classroom Walk in the shoes of elementary school teachers as they engage in the 200 micro decisions per minute needed to balance the strategies tasks and assessments seminal to high impact mathematics instruction Using grade leveled examples and a decision making matrix you ll learn to Articulate clear learning intentions and success criteria at surface deep and transfer levels Employ evidence to guide students along the path of becoming metacognitive and self directed mathematics achievers Use formative assessments to track what students understand what they don t and why Select the right task for the conceptual procedural or application emphasis you want ensuring the task is for the right phase of learning Adjust the difficulty and complexity of any task to meet the needs of all learners It s not only what works but when Exemplary lessons video clips and online resources help you leverage the most effective teaching practices at the most effective time to meet the surface deep and transfer learning needs of every student

**Japanese Lesson Study In Mathematics: Its Impact, Diversity And Potential For Educational Improvement** Masami Isoda, Max Stephens, Yutaka Ohara, Takeshi Miyakawa, 2007-02-06 In Before It s Too Late A Report to the Nation from the National Commission on Mathematics and Science Teaching for the 21st Century 2000 in the US the authors quote from James Stigler s conclusions from various videotape research studies of mathematics teaching The key to long term improvement in teaching is to figure out how to generate accumulate and share professional knowledge Japanese Lesson Study has proved to be one successful means This book supports the growing movement of lesson study to improve the quality of mathematics education from the original viewpoints of Japanese

educators who have been engaging in lesson study in mathematics for professional development and curriculum implementation This book also illustrates several projects related to lesson study in other countries *Your Mathematics Standards Companion, Grades 3-5* Linda M. Gojak, Ruth Harbin Miles, 2017-05-17 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It's all here page by page The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the classroom Connected standards within each domain so teachers can better appreciate how they relate Priorities within clusters so teachers know where to focus their time The three components of rigor conceptual understanding procedural skills and applications Vocabulary and suggested materials for each grade level band with explicit connections to the standards Common student misconceptions around key mathematical ideas with ways to address them Sample lesson plans and lesson planning templates Cross referenced index listing the standards in the following states explaining what is unique to the standards of each state *Your Mathematics Standards Companion* is your one stop guide for teaching planning assessing collaborating and designing powerful mathematics curriculum *Teaching STEM and Common Core with Mentor Texts* Anastasia Suen, Shirley L. Duke, 2013-12-02 Librarians can use this book to become leaders in their schools collaborating with teachers to keep them abreast of resources that will facilitate the inclusion of STEM in the curriculum *Teaching STEM and Common Core with Mentor Text* explains the basics of STEM Science Technology Engineering and Mathematics and shows how librarians can become a key component in STEM education guiding teachers and sparking interest through the books and technology inherent in their curriculum The volume offers 20 mentor texts plus in depth collaborative lesson plans linked to the Common Core Standards for K-5 librarians There are additional lessons for classroom teachers as well as activities that can easily be done in the library or classroom Each lesson includes mentor text information an overview of the lesson step by step lesson plans assessment options and extension activities By implementing these lessons in the library librarians will be able to cover multiple Common Core State Standards and science standards and at the same time establish the library as a resource for teaching STEM subjects *Better Lesson Plans, Better Lessons* Ben Curran, 2015-09-25 In today's high stakes world ready made lessons and teacher's guides are no longer enough to guarantee achievement The best way to help students succeed is through deliberate and careful lesson planning focused on the end result of increasing student achievement Whether you are a new teacher or an experienced educator this book will help you get started by providing a practical step by step guide to designing lessons that will lead to student mastery of any objective You'll learn the essential components of lessons that are Common Core aligned and grounded in best practices Topics include Tailoring your lessons to

meet your state standards while ensuring high student achievement Writing a strong objective to stay focused on the goal of a lesson Creating an end of lesson assessment to gauge the lesson s success Constructing a lesson plan that combines direct instruction guided practice and independent practice Along the way you ll find plenty of helpful examples from math and English Language Arts You ll also find end of chapter FAQs and activities to try to help you make these concepts a reality for your own classroom Many of the tools from the book are also available as free downloads from our website [www.routledge.com/books/details/9781138838871](http://www.routledge.com/books/details/9781138838871)

New York State Assessment: Preparing for Next Generation Success: Grade 3 Mathematics: Teacher's Guide Melissa Laughlin,2023-01-31 Learn how to prepare today s third grade students for the New York State Mathematics Test This teacher s guide provides best practices and instructions for how to use the New York State Assessment Preparing for Next Generation Success Mathematics Grade 3 practice books in classroom settings These books offer opportunities for both guided and independent practice to prepare students for the standardized assessment With the helpful tools in this teacher s guide educators can smoothly incorporate these engaging rigorous practice exercises into daily learning to expand students knowledge and set them up for 21st century success Use the teacher tips and structured lessons for easy implementation Build confidence and reduce testing anxiety by using practice tests to improve student performance Ensure students are comfortable with a range of question formats multi step mathematics problems and higher level questions Help students prepare for tests measuring NYS Next Generation Learning Standards

**Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5** Judith A. Muschla,Gary R. Muschla,Erin Muschla-Berry,2014-02-12 Helping teachers prepare elementary students to master the common core math standards With the common core math curriculum being adopted by forty three states it is imperative that students learn to master those key math standards Teaching the Common Core Math Standards with Hands On Activities Grades 3 5 is the only book currently available that provides activities directly correlated to the new core curriculum for math This text assists teachers with instructing the material and allows students to practice the concepts through use of the grade appropriate activities included Students learn in different ways and Teaching the Common Core Math Standards with Hands On Activities Grades 3 5 acknowledges that fact through the inclusion of suggestions for variations and extensions of each concept to be used for students with different abilities and learning styles The activities and lessons are as diverse as the students in your classroom Inside Teaching with Common Core Math Standards With Hands On Activities Grades 3 5 you will find Clear instructions to help you cover the skills and concepts for the new math core curriculum Engaging activities that enforce each core math standard for your students Various suggestions for ways to instruct the concepts to reach the diverse learning styles of your students Complete coverage of mathematical calculations mathematical reasoning and problem solving strategies appropriate for grades 3 5 Teaching the Common Core Math Standards with Hands On Activities Grades 3 5 prepares students to achieve success in the important area of mathematics As your students gain an understanding of the common

core standards they will build confidence in their ability to grasp and manipulate mathematical concepts as they move forward to the next level

**The Common Core Mathematics Companion: The Standards Decoded, Grades 3-5** Linda M. Gojak, Ruth Harbin Miles, 2015-05-28 Your user's guide to the mathematics standards In the 12 short months since the ELA versions of The Common Core Companions Grades K 2 and 3 5 burst on the scene they've already assisted tens of thousands of teachers with the day to day what you do Teachers one big criticism what about mathematics Luckily NCTM past president Linda Gojak and mathematics coach Ruth Harbin Miles stepped up to the task The result That version of the mathematics standards you wish you had Page by page The Common Core Mathematics Companions clearly lay out The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the classroom Connected standards within each domain so teachers can better appreciate how they relate Priorities within clusters so teachers know where to focus their time The three components of rigor conceptual understanding procedural skills and applications Vocabulary and suggested materials for each grade level band with explicit connections to the standards Common student misconceptions around key mathematical ideas with ways to address them Don't spend another minute poring over the mathematics standards Gojak and Miles have already done the heavy lifting for you Focus instead on how to teach them using The Common Core Mathematics Companion as your one stop guide for teaching planning assessing collaborating and designing powerful mathematics curriculum

[Math Curriculum for Gifted Students](#) Centre for Gifted Education, 2021-09-03 The Math Curriculum for Gifted Students series Provides gifted and advanced learners with challenging activities to extend their mathematical thinking Includes lessons activities and extensions that are aligned to national standards Is designed to provide high ability learners advancement beyond the general curriculum Is ideal for gifted classrooms or gifted pull out groups Was developed by the Center for Gifted Education at William a challenging activity to allow students to explore the concepts in depth practice problems and an assessment similar to standards based grade level standardized assessments Optional Student Workbook Packs In addition to this teacher's guide companion student workbooks are available in sets of 5 which cover number operations in Base Ten and operations algebraic thinking Grade 3

[Eureka Math Grade 3 Study Guide](#) Great Minds, 2015-11-09 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides

can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 3 provides an overview of all of the Grade 3 modules including Properties of Multiplication and Division and Solving Problems with Units of 2 5 and 10 Place Value and Problem Solving with Units of Measure Multiplication and Division with Units of 0 1 6 9 and Multiples of 10 Multiplication and Area Fractions as Numbers on the Number Line and Collecting and Displaying Data

**The Formative 5** Francis (Skip) Fennell, Beth McCord Kobett, Jonathan A. Wray, 2016-12-15 This highly practical and readable book gets right down into the detail of what good formative assessment looks like in math classrooms and shows how teachers can make this a part of their regular planning and instruction Dylan Wiliam Emeritus Professor of Educational Assessment University College Imagine how it would feel to not worry about how to plan teach and check for student mathematical understandings and related proficiencies Imagine if this important process felt like a natural every day part of your lesson preparation instead of an extra thing to do This must have resource shows the way NCTM Past President Francis Skip Fennell and nationally recognized mathematics educators Beth McCord Kobett and Jonathan Jon Wray offer five of the most impactful proven assessment techniques Observations Interviews Show Me Hinge Questions and Exit Tasks you can implement every day Tried and tested by teachers just like you you ll find that this palette of classroom based techniques will truly assess learning and inform teaching Research and classroom practice indicates that formative assessment is poorly understood This book gives you a concise research based classroom dedicated plan with lots of tools activities classroom vignettes and student work to guide your daily use of these techniques The Formative 5 Both within and between lessons K 8 teachers of mathematics will learn to Think and go beyond assessment of learning focusing on assessment for learning Directly connect assessment to planning and teaching Engineer effective classroom questioning discussions and learning tasks Provide success criteria and feedback that moves students forward Integrate the Standards for Mathematical Practice Activate student self assessors who take ownership of their learning Includes a book study guide tools and templates and a companion website with downloadables and multi media examples of student discussion in the classroom The Formative 5 will help you build your mathematics related formative assessment capacity through daily use of these five key techniques leading to regularly monitored and improved learning opportunities for your students Now Available The On Your Feet Guide to The Formative 5

**Classroom-Ready Rich Math Tasks, Grades 2-3** Beth McCord Kobett, Francis (Skip) Fennell, Karen S. Karp, Desiree Harrison, Barbara Ann Swartz, 2021-06-08 Detailed plans for helping elementary students experience deep



mathematical learning Do you work tirelessly to make your math lessons meaningful challenging accessible and engaging Do you spend hours you don't have searching for adapting and creating tasks to provide rich experiences for your students that supplement your mathematics curriculum Help has arrived Classroom Ready Rich Math Tasks for Grades 2-3 details research and standards aligned high cognitive demand tasks that will have your students doing deep problem based learning These ready to implement engaging tasks connect skills concepts and practices while encouraging students to reason problem solve discuss explore multiple solution pathways connect multiple representations and justify their thinking They help students monitor their own thinking and connect the mathematics they know to new situations In other words these tasks allow students to truly do mathematics Written with a strengths based lens and an attentiveness to all students this guide includes Complete task based lessons referencing mathematics standards and practices vocabulary and materials Downloadable planning tools student resource pages and thoughtful questions and formative assessment prompts Guidance on preparing launching facilitating and reflecting on each task Notes on access and equity focusing on students strengths productive struggle and distance or alternative learning environments With concluding guidance on adapting or creating additional rich tasks for your students this guide will help you give all of your students the deepest most enriching and engaging mathematics learning experience possible

[Eureka Math Curriculum Study Guide](#) Common Core, 2015-03-23 Eureka Math is a comprehensive content rich PreK-12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 3 provides an overview of all of the Grade 3 modules including Properties of Multiplication and Division and Solving Problems with Units of 2, 5 and 10 Place Value and Problem Solving with Units of Measure Multiplication and Division with Units of 0, 1, 6, 9 and Multiples of 10 Multiplication and Area Fractions as Numbers on the Number Line and Collecting and

Displaying Data      Juli K. Dixon, Thomasina Lott Adams, 2014-10-09 Focus your curriculum to heighten student achievement Learn 10 high leverage team actions for grades K 5 mathematics instruction and assessment Discover the actions your team should take before a unit of instruction begins as well as the actions and formative assessments that should occur during instruction Examine how to most effectively reflect on assessment results and prepare for the next unit of instruction

Peer Coaching to Enrich Professional Practice, School Culture, and Student Learning Pam Robbins, 2015-05-19 How can educators work together more effectively to improve professional practice in a way that enhances student performance The answer says author Pam Robbins involves combining collaborative activities and peer coaching teachers supporting teachers This book describes how any school can implement these proven practices and experience positive changes in teaching school culture and learning Robbins explains how to develop a collaborative learning focused culture and build trust among colleagues offers strategies for participating in difficult conversations that yield useful feedback clarifies how to develop sustain and evaluate peer coaching efforts and showcases exemplary peer coaching practices used in real schools She also includes coaching tools scenarios process guidelines and reflection questions that make it easier to transfer these ideas into a school setting Peer coaching offers a job embedded learning strategy it s a valuable structure for supporting schoolwide and districtwide priorities such as analyzing data improving instruction integrating technology and implementing standards In short it creates an effective way to support the growth of every teacher and enrich learning processes in any school Pam Robbins is a former teacher coach director of professional development and school leader She consults with high performing and low performing districts and designs and conducts workshops on leadership school culture organizational change mentoring and peer coaching      **Helping Children Learn Mathematics** Robert E. Reys, 1992

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