

MULTIPLICATION

BREAK APART STRATEGY

WORKSHEETS

Worksheet for 3 (Break Apart Strategy)

Name: _____

Directions: Complete the table below. Break apart the first factor to help you multiply.

Equation	Array (Draw four one-unit squares and label to help you multiply)	Break Apart Equation (Use parentheses)
$2 \times 3 = \underline{\quad}$		$(2 \times 2) + (2 \times 1) = \underline{\quad}$ $4 + 2 = 6$
$6 \times 3 = \underline{\quad}$		$(3 \times \underline{\quad}) + (3 \times \underline{\quad}) = \underline{\quad}$
$4 \times 3 = \underline{\quad}$		

Worksheet for 4 (Break Apart Strategy)

Name: _____

Directions: Complete the table below. Break apart the first factor to help you multiply.

Array (Draw four one-unit squares and label to help you multiply)	Break Apart Equation (Use parentheses)

Worksheet for 5 (Break Apart Strategy)

Name: _____

Directions: Complete the table below. Break apart the first factor to help you multiply.

$3 \times 4 = \underline{\quad}$	



3rd

Break Apart Multiplication

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Figuring Out Fluency - Multiplication and Division With Whole Numbers John J. SanGiovanni, Jennifer M.

Bay-Williams, Rosalba Serrano, 2021-07-27 Because fluency practice is not a worksheet Fluency in mathematics is more than adeptly using basic facts or implementing algorithms It is not about speed or recall Real fluency is about choosing strategies that are efficient flexible lead to accurate solutions and are appropriate for the given situation Developing fluency is also a matter of equity and access for all learners The landmark book Figuring Out Fluency in Mathematics Teaching and Learning offered educators the inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach Now teachers have the chance to apply that inspiration through explicit instruction and practice every day with the classroom companion Figuring Out Fluency Multiplication and Division with Whole Numbers With this book teachers can Dive deeper into the Significant Strategies for fluency explained in the anchor book Learn how these strategies grow from and relate to the basic fact strategies children learn Access over 100 strategy aligned and classroom ready activities for fluency instruction and practice in multiplying and dividing multi digit whole numbers including worked examples routines games and centers Find activities for assessing all components of multiplication and division fluency plus support for engaging families Download all of the needed support tools game boards and other resources from the companion website for immediate implementation Give each and every student the knowledge and power to become skilled and confident mathematical thinkers and doers

Figuring Out Fluency - Multiplication and Division With Fractions and Decimals Jennifer M. Bay-Williams, John J. SanGiovanni, Sherri Martinie, Jennifer Suh, 2022-03-02 Because fluency practice is not a worksheet Fluency in mathematics is more than adeptly using basic facts or implementing algorithms It is not about speed or recall Real fluency is about choosing strategies that are efficient flexible lead to accurate solutions and are appropriate for the given situation Developing fluency is also a matter of equity and access for all learners The landmark book Figuring Out Fluency in Mathematics Teaching and Learning offered educators the inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach Now teachers have the chance to apply that inspiration through explicit instruction and practice every day with the classroom companion Figuring Out Fluency Multiplication and Division with Fractions and Decimals With this book teachers can Dive deeper into the Significant Strategies for fluency explained in the anchor book Learn how these strategies grow from and relate to the basic fact strategies children learn Access over 100 strategy aligned and classroom ready activities for fluency instruction and practice in multiplying and dividing fractions and decimals including worked examples routines games and centers Find activities for assessing all components of multiplication and division fluency for fractions and decimals plus support for engaging families Download all of the needed support tools game boards and other resources from the companion website for immediate implementation Give each and every student the knowledge and power to become

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Figuring Out Fluency in Mathematics Teaching and Learning, Grades K-8

Jennifer M. Bay-Williams, John J. SanGiovanni, 2021-03-11 Because fluency practice is not a worksheet Fluency in mathematics is more than adeptly using basic facts or implementing algorithms Real fluency involves reasoning and creativity and it varies by the situation at hand Figuring Out Fluency in Mathematics Teaching and Learning offers educators the inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach In a friendly and accessible style this hands on guide empowers educators to support students in acquiring the repertoire of reasoning strategies necessary to becoming versatile and nimble mathematical thinkers It includes Seven Significant Strategies to teach to students as they work toward procedural fluency Activities fluency routines and games that encourage learning the efficiency flexibility and accuracy essential to real fluency Reflection questions connections to mathematical standards and techniques for assessing all components of fluency Suggestions for engaging families in understanding and supporting fluency Fluency is more than a toolbox of strategies to choose from it s also a matter of equity and access for all learners Give your students the knowledge and power to become confident mathematical thinkers 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

Figuring Out Fluency - Operations With Rational Numbers and Algebraic Equations

Jennifer M. Bay-Williams, John J. SanGiovanni, C. David Walters, Sherri Martinie, 2022-07-25 This book is awesome What stood out to me was the deep understanding I was able to have about what fluency actually means Too often the message has been fluency and accuracy especially at the middle school level By providing teachers with tools for building fluency with integers expressions and algebra this book shifts that message to also focus on flexibility and strategy selection Lindsey Henderson Secondary Mathematics Specialist Utah State Board of Education Salt Lake City UT Because fluency practice is not a worksheet Fluency in mathematics is more than adeptly using basic facts or implementing algorithms It is not about speed or recall Real fluency is about choosing strategies that are efficient flexible lead to accurate solutions and are appropriate for the given situation Developing fluency is also a matter of equity and access for all learners The landmark book Figuring Out Fluency in Mathematics Teaching and Learning offered educators the inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach Now teachers have the chance to apply that inspiration through explicit instruction and practice every day with the classroom companion Figuring Out Fluency Operations With Rational Numbers and Algebraic Equations With this book teachers can Dive deeper into the Significant Strategies for fluency explained in the anchor book as they apply to rational number operations Explore

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Teaching Early Algebra through Example-Based Problem Solving Meixia Ding,2021-04-07 Drawing on rich classroom observations of educators teaching in China and the U S this book details an innovative and effective approach to teaching algebra at the elementary level namely teaching through example based problem solving TEPS Recognizing young children's particular cognitive and developmental capabilities this book powerfully argues for the importance of infusing algebraic thinking into early grade mathematics teaching and illustrates how this has been achieved by teachers in U S and Chinese contexts Documenting best practice and students responses to example based instruction the text demonstrates that this TEPS approach which involves the use of worked examples representations and deep questions helps students learn and master fundamental mathematical ideas making it highly effective in developing algebraic readiness and mathematical understanding This text will benefit post graduate students researchers and academics in the fields of mathematics STEM and elementary education as well as algebra research more broadly Those interested in teacher education classroom practice and developmental and cognitive psychology will also find this volume of interest Teaching Mathematics Conceptually Beth L. MacDonald,Jonathan N. Thomas,2023-04-08 This book expands upon the guiding principles at the heart of Math

Recovery instruction exploring their connections with learning theory practical application in the classroom and their wider links to agreed concepts of high quality mathematics teaching It provides a well rounded overview of all major aspects of mathematics teaching including inquiry based and constructivist approaches planning and assessment and strategies that offer children opportunities for reflection satisfaction and increasing challenge Particular focus is placed on equitable and inclusive practices in mathematics and how we can develop teaching that connects with the abilities cultures and lived experiences of all children This is essential reading for all teachers familiar with the Math Recovery approach and classroom mathematics teachers in elementary and primary schools everywhere seeking to enhance their own professional knowledge and understanding Beth L MacDonald is an associate professor in Early Childhood Mathematics Education in the School of Teaching and Learning at Illinois State University Jonathan N Thomas is an associate professor of mathematics education and the chairperson of the Department of STEM Education at the University of Kentucky

Star Wars Workbook: 3rd Grade Math Workman Publishing, Claire Piddock, 2017-11-28 Make learning an intergalactic adventure

Reviewing **Break Apart Multiplication**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Break Apart Multiplication**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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