

**7TH**  
GRADE  
CCSS

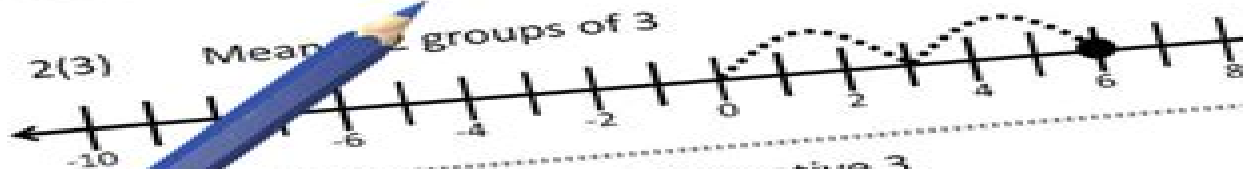
# RATIONAL NUMBERS

Make Sense  
OF MATH

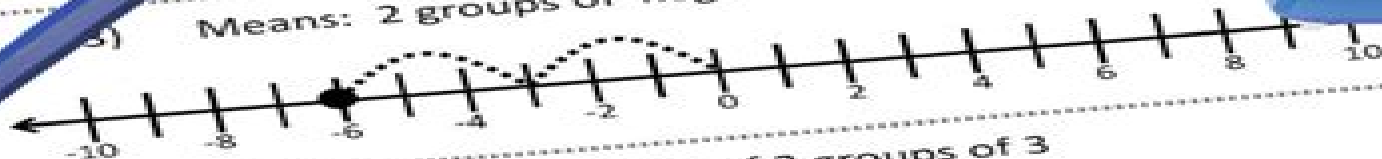
## Modeling Multiplication on a Number Line

Multiplication  $\xrightarrow{\text{MEANS}}$  Groups of  $\xrightarrow{\text{MEANS}}$  Negative  $\xrightarrow{\text{MEANS}}$  Opposite

$2(3)$  Means: 2 groups of 3

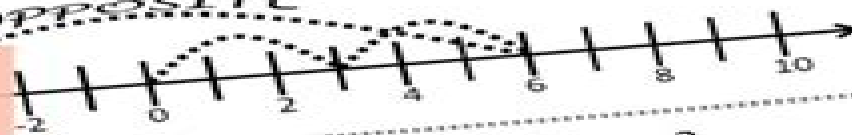


$2(-3)$  Means: 2 groups of negative 3



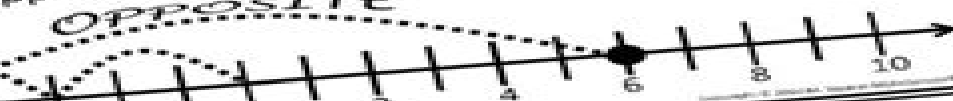
$-2(3)$  Means: The opposite of 2 groups of 3

**OPPOSITE**



$-2(-3)$  Means: The opposite of 2 groups of negative 3

**OPPOSITE**



# UNIT

# Common Core Lesson Plans For Rational Numbers

**Kathleen Armour**



## **Common Core Lesson Plans For Rational Numbers:**

**Teaching by Design in Elementary Mathematics, Grades 4–5** Melinda Leong, Jennifer Stepanek, Linda Griffin, 2010-12 This professional learning programme for Key Stage 3 mathematics teaching is grounded in the latest research on the characteristics of effective professional development The materials help teachers deepen their content knowledge for important mathematical concepts in their grade increase their understanding of how students learn these mathematical ideas use their knowledge to develop effective lessons and improve instruction enhance their collaboration skills The mathematical content of Teaching by Design in Mathematics matches content topics in number and operations identified for each grade by the NCTM Curriculum Focal Points The culminating activity of the programme is the co creation of a prototype lesson which is taught to students by team members the team then investigates the impact of the lesson on student learning The cycle of investigating planning teaching observing debriefing and revising a lesson together contributes to a climate of continuous professional learning *Every Math Learner, Grades 6-12* Nanci N. Smith, 2017-02-02 Differentiation that shifts your instruction and boosts ALL student learning Nationally recognized math differentiation expert Nanci Smith debunks the myths surrounding differentiated instruction revealing a practical approach to real learning differences Theory lite and practice heavy this book provides a concrete and manageable framework for helping all students know understand and even enjoy doing mathematics Busy secondary mathematics educators learn to Provide practical structures for assessing how students learn and process mathematical concepts information Design implement manage and formatively assess and respond to learning in a standards aligned differentiated classroom Adjust current materials to better meet students needs Includes classroom videos and a companion website *CCSS 7.NS.A.2c Multiply and Divide Rational Numbers 1*, 2014-01-01 Fill in the gaps of your Common Core curriculum Each ePacket has reproducible worksheets with questions problems or activities that correspond to the packet's Common Core standard Download and print the worksheets for your students to complete Then use the answer key at the end of the document to evaluate their progress Look at the product code on each worksheet to discover which of our many books it came from and build your teaching library This ePacket has 9 activities that you can use to reinforce the standard CCSS 7 NS A 2c Multiply and Divide Rational Numbers To view the ePacket you must have Adobe Reader installed You can install it by going to <http://get.adobe.com/reader> Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2020-03-09 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers

continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the chapters five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics A Quick Reference Guide has been added to the front of the book to assist the reader in identifying the most useful chapter features by topic A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure as well as a discussion of practical suggestions for success in methods and student teaching experiences Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices An updated Instructor s Manual features a test bank sample classroom activities Powerpoint slides chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at [www.routledge.com](http://www.routledge.com) 9780367146511

**The Well-Rounded Math Student** Sherri Martinie, Jessica Lane, Janet Stramel, Jolene Goodheart Peterson, Julie Thiele, 2025-05-26 Integrate a holistic approach to mathematics success with essential personal and social skills Teaching math is more than just numbers It s about shaping future ready students who are not only academically strong but thrive socially and emotionally Research shows that learning both intrapersonal and interpersonal skills helps students academically and teachers play a crucial role in providing social emotional support The Well Rounded Math Student helps mathematics teachers in Grades K 12 foster both their students academic prowess and their social and emotional development Through the lens of the Standards for Mathematical Practice the book emphasizes the importance of intentionally teaching and promoting intrapersonal and interpersonal skills or Next Generation skills alongside mathematical concepts The authors provide step by step guidance on how small adjustments in lesson planning can have a profound impact on students growth Providing teachers with a new lens to leverage in their planning as well as concrete ways to use their mathematics lessons to explicitly teach and reinforce social and emotional competencies this book Holds a strengths based mindset and approach for both teachers and students Highlights the importance of the

science and the art of teaching to enhance social development human connection classroom management and community within classrooms Stresses that the overarching goal of education is to help students become responsible adults who are ready for their future Includes a lesson planning guide competency builder activities vignettes of enhanced lessons across grade bands reflection questions and suggestions for taking action The Well Rounded Math Student bridges critical intrapersonal and interpersonal elements to help educators create an environment where students excel in math and develop the life skills they ll carry forever

**The Mathematical Education of Teachers II** Conference Board of the Mathematical Sciences, 2012 This report is a resource for those who teach mathematics and statistics to PreK 12 mathematics teachers both future teachers and those who already teach in our nation s schools The report makes recommendations for the mathematics that teachers should know and how they should come to know that mathematics It urges greater involvement of mathematicians and statisticians in teacher education so that the nation s mathematics teachers have the knowledge skills and dispositions needed to provide students with a mathematics education that ensures high school graduates are college and career ready as envisioned by the Common Core State Standards This report draws on the experience and knowledge of the past decade to Update the 2001 Mathematical Education of Teachers report s recommendations for the mathematical preparation of teachers at all grade levels elementary middle and high school Address the professional development of teachers of mathematics Discuss the mathematical knowledge needed by teachers at different grade levels and by others who teach mathematics such as elementary mathematics specialists special education teachers and early childhood educators Each of the MET II writers is a mathematician statistician or mathematics educator with substantial expertise and experience in mathematics education Among them are principal investigators for Math Science Partnerships as well as past presidents and chairs of the American Statistical Association Association of Mathematics Teacher Educators Association of State Supervisors of Mathematics Conference Board of the Mathematical Sciences and National Council of Teachers of Mathematics The audience for this report includes all who teach mathematics to teachers mathematicians statisticians and mathematics educators and all who are responsible for the mathematical education of teachers department chairs educational administrators and policy makers at the national state school district and collegiate levels

**Math Starters** Judith A. Muschla, Gary R. Muschla, Erin Muschla, 2013-08-22 A revised edition of the bestselling activities guide for math teachers Now updated with new math activities for computers and mobile devices and now organized by the Common Core State Standards this book includes more than 650 ready to use math starter activities that get kids quickly focused and working as soon as they enter the classroom Ideally suited for any math curriculum these high interest problems spark involvement in the day s lesson help students build skills and allow teachers to handle daily management tasks without wasting valuable instructional time A newly updated edition of a bestselling title Ideal for math teachers in grades six through twelve Includes more than 650 ready to use starter problems

Teaching the Common Core Math Standards with

Hands-On Activities, Grades 9-12 Gary R. Muschla, 2015-04-17 Bring Common Core Math into high school with smart engaging activities Teaching Common Core Math Standards with Hands On Activities Grades 9 12 provides high school teachers with the kind of help they need to begin teaching the standards right away This invaluable guide pairs each standard with one or more classroom ready activities and suggestions for variations and extensions Covering a range of abilities and learning styles these activities bring the Common Core Math Standards to life as students gain fluency in math communication and develop the skillset they need to tackle successively more complex math courses in the coming years Make math anxiety a thing of the past as you show your students how they use math every day of their lives and give them the cognitive tools to approach any math problem with competence and confidence The Common Core Standards define the knowledge and skills students need to graduate high school fully prepared for college and careers Meeting these standards positions American students more competitively in the global economy and sets them on a track to achieve their dreams This book shows you how to teach the math standards effectively and facilitate a deeper understanding of math concepts and calculations Help students apply their understanding of math concepts Teach essential abstract and critical thinking skills Demonstrate various problem solving strategies Lay a foundation for success in higher mathematics The rapid adoption of the Common Core Standards across the nation has left teachers scrambling for aligned lessons and activities If you want to bring new ideas into the classroom today look no further Teaching Common Core Math Standards with Hands On Activities is the high school math teacher s solution for smart engaging Common Core math      Math Lesson Starters for the Common Core, Grades 6-8 Paige Graiser, 2014-06-05 The best way to prepare students for the Common Core State Standards in Math is through daily practice This book provides engaging practical lesson starters you can use each day to help middle school students become proficient in the complex mathematical thinking required by the Common Core The lesson starters in this book are reproducible and ready to use in the classroom aligned with the five domains of the Common Core State Standards in Math written to elicit the type of deep thinking that students need to succeed on the non traditional PARCC and Smarter Balanced assessments and powerful formative assessment tools to assist teachers in diagnosing student misconceptions so that daily lessons can be fine tuned to meet the immediate learning needs of their students Lesson starters not only aid instruction but also cut back on classroom management problems since students get to work right when the bell rings This book will help you engage students save planning time and bring all students to success in math      *Improving Achievement With Digital Age Best Practices* Christopher M. Moersch, 2013-10-28 Connect Common Core inquiry and technology While technology ushers in exciting and innovative educational opportunities finding best practices for complete integration remains a challenge In this practical resource educators will discover a roadmap for implementing digital age best practices With discussions on how to promote networked collaboration bolster purposeful inquiry and anchor student decision making and learning with digital age tools these research based strategies deliver A user friendly road map for digital transition into

new Common Core Standards Lesson plans benchmarks and instructional units to bridge the link between 21st century skills Common Core Standards and student achievement Practical tips for classroom building and district implementation Tools and guidance for successful PLCs Eureka Math, A Story of Functions: Pre-Calculus, Module 3 Great Minds,2016-07-25 Common Core Eureka Math for Grade 12 Module 3 Created by teachers for teachers the research based curriculum in this series presents a comprehensive coherent sequence of thematic units for teaching the skills outlined in the CCSS for Mathematics With four color illustrations complete lesson plans and reproducible student worksheets and assessments this resource is uniquely designed to support teachers in developing content rich integrated learning experiences that adhere to established standards and encourage student engagement Developed by Common Core a non profit advocacy group dedicated to producing content rich liberal arts curricula for America s K 12 schools Common Core Mathematics is the most comprehensive CCSS based mathematics curriculum available today The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself They embody the instructional shifts and the standards for mathematical practice demanded by the CCSS Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative assessments are included to support data driven instruction The modules are written by teams of master teachers and mathematicians This Module addresses Rational and Exponential Functions **CCSS 7.NS.A.1d Add and Subtract Rational Numbers 1** ,2014-01-01 Fill in the gaps of your Common Core curriculum Each ePacket has reproducible worksheets with questions problems or activities that correspond to the packet s Common Core standard Download and print the worksheets for your students to complete Then use the answer key at the end of the document to evaluate their progress Look at the product code on each worksheet to discover which of our many books it came from and build your teaching library This ePacket has 9 activities that you can use to reinforce the standard CCSS 7 NS A 1d Add and Subtract Rational Numbers To view the ePacket you must have Adobe Reader installed You can install it by going to <http://get.adobe.com/reader>

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Resource Handbook ,1993      *Learning and Teaching K-8 Mathematics* Janet M. Sharp,Karen Bush Hoiberg,2005 Real students Real teaching Real learning Try it This hands on text takes an ACTIVE approach to teaching mathematics in grades K 8 Activities are embedded in each chapter for adult learners to complete to ensure that they are grasping the mathematics Completing these activities provides future teachers with invaluable insight into how children think about and learn math thereby equipping them with the skills to make sound instructional decisions See it Throughout the book and on the enclosed Understanding Children s Mathematical Thinking VideoWorkshop CD ROM we see coauthor Karen Bush Hoiberg in action A presidential award winning elementary teacher Karen provides a multitude of practical applications and real world examples to give preservice teachers insight into how children think mathematically Teach it The text is organized around four general themes within each major mathematical content area thinking about the mathematics learning theories the role of the teacher and making algebraic connections By actually DOING mathematics while analyzing learning theory novice or preservice teachers are able to connect chapter concepts to actual classroom teaching practices Many methods books assume that their readers know very little about learning theory and proceed to either overwhelm their readers or trivialize the material through a superficial chapter Sharp and Hoiberg integrate learning theory throughout their text and show how learning theory can be viewed through mathematics in real classrooms without becoming tedious or distracting Chris Ohana Western Washington University Field Editor for the NSTA Journal of Science and Children College students planning to be elementary school teachers need a framework and examples that reflect contemporary notions about the teaching and learning of mathematics Similarly college methods professors need materials that challenge their students with respect to the mathematical content they are expected to teach and how they can encourage children s mathematical thinking The needs of both may be met with *Learning and Teaching K 8 Mathematics* Tom Romberg University of Wisconsin Madison Perhaps one of the most important aspects of the text is the continual reference to the classroom seeing it not only in form of vignettes but hearing it from the voice of a practicing teacher and also the inclusion of excerpts of questioning techniques used by other practicing teachers This constant reference to the classroom will help preservice teachers become much more reflective mathematics teachers William Fisher California State University Chico      **Bulletin of the Carnegie Foundation for the Advancement of Teaching** ,1918      Te Math Advantage 98 Gr 6 Vol 1 Harcourt Brace Publishing,1997-10-10

**The Arithmetic Teacher** ,1991      **Common Core Mathematics in a PLC at Work™, Grades 6-8** Diane J. Briars,David Foster,2012-10-26 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics grades 6 8 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



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