

Math

Common Core State Standards

7th Grade

Proportions, percents, integer operations, linear equations, inequalities, geometry, probability & more!

RATIOS & PROPORTIONS

Ratio: A comparison of two numbers or measurements.

Rate: A ratio in which the two terms are in different units.

Unit rate: A rate that is expressed as a quantity of one (for example, miles per hour).

EX: Bill ran 10 laps around the high school track in 12 minutes. How many laps can he run in 45 minutes? First, find the unit rate:

$$\frac{10 \text{ laps}}{12 \text{ minutes}} = \frac{x}{1} \text{ laps per minute}$$

Bill can run $\frac{5}{6}$ laps per minute. Use the unit

rate to solve: $\frac{5}{6} = \frac{45}{1} = \frac{225}{6} = 37.5$ laps

Bill can run 37.5 laps in 45 minutes.

Proportions: Two equal ratios

EX: Solve for x to complete the proportion.

$$\begin{aligned} \frac{6}{15} &= \frac{x}{25} \\ (15)(x) &= (6)(25) \\ 15x &= 150 \\ \frac{15x}{15} &= \frac{150}{15} \\ x &= 10 \end{aligned}$$

EX: Tory accumulated 6 vacation days after working for 9 months. How many vacation days will Tory have after working for 2 years?

$$\begin{aligned} \frac{6}{9} &= \frac{x}{24} \\ 9x &= 144 \\ \frac{9x}{9} &= \frac{144}{9} \\ x &= 16 \end{aligned}$$

Tory will have 16 vacation days after working for 2 years.

Tip!

Use the unit rate to make sure that the units convert correctly, too!

Proportional Relationships among Quantities

Ratios of input and corresponding output values are proportional

y	1	2	3	4	5	6
x	2	4	6	8	10	12

$\frac{y}{x}$	$\frac{1}{2}$	$\frac{2}{4}$	$\frac{3}{6}$	$\frac{4}{8}$	$\frac{5}{10}$	$\frac{6}{12}$
x	2	4	6	8	10	12

Constant of proportionality: $y = kx$; y varies in direct proportion to x , and k is the constant of proportionality

EX: At a constant speed, a car travels 50 meters in 2 seconds. How long would it take the car to travel 375 meters?

Elapsed Time	Distance Traveled	Speed (Ratio in m/s)
1 second	25 meters	25
2 seconds	50 meters	25
3 seconds	75 meters	25

Time (t) and distance

(d) are directly proportional

$$\frac{d}{t} = \text{constant } (k)$$

25 meters per second is the constant speed

$$y = kx$$

$$375 = 25x$$

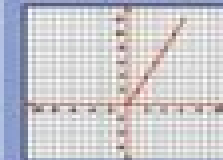
$$\frac{375}{25} = \frac{25}{25}x$$

$$15 = x$$

It will take the car 15 seconds to travel 375 meters.

Tip!

The graph of a directly proportional relationship will always be a straight line and must pass through the origin.



Percent Problems

Formula: $\frac{\text{percent}}{100} = \frac{\text{part}}{\text{whole}}$

EX: Within the past year, 25% of the 16 stores in a mall have closed. How many stores closed in the mall?

$$\begin{aligned} \frac{25}{100} &= \frac{x}{16} \\ 100x &= 400 \\ \frac{100x}{100} &= \frac{400}{100} \\ x &= 4 \end{aligned}$$

Four stores closed in the mall during the past year.

Gratuities

EX: A group of friends went out to dinner. Their bill was \$253. They want to leave an 18% tip for the waiter. How much money should they leave for the tip?

$$\begin{aligned} \text{Use a proportion: } \frac{18}{100} &= \frac{x}{253} \\ 100x &= 4194 \\ \frac{100x}{100} &= \frac{4194}{100} \\ x &= 41.94 \end{aligned}$$

The friends should leave a tip of \$41.94.

Percent Increase or Decrease

EX: The dues in a neighborhood increased from \$24 per month to \$30 per month. Find the percent of increase.

Subtract to find the amount of increase:
 $30 - 24 = 6$

Use a proportion:

$$\begin{aligned} \frac{\text{difference}}{\text{original amount}} &= \frac{x}{100} \\ \frac{6}{24} &= \frac{x}{100} \\ 24x &= 600 \\ 24x &= 600 \\ \frac{24x}{24} &= \frac{600}{24} \\ x &= 25 \end{aligned}$$

There was a 25% increase.

EX: Between 3:00 p.m. and 6:00 p.m., the temperature dropped from 88 degrees to 60 degrees. Find the percent of decrease.

Subtract to find the amount of decrease:

$$88 - 60 = 28$$

Use a proportion:

$$\begin{aligned} \frac{28}{88} &= \frac{x}{100} \\ 88x &= 2800 \\ \frac{88x}{88} &= \frac{2800}{88} \\ x &= 31.8 \end{aligned}$$

The temperature decreased by about 31.8%.

Simple Interest

EX: Carmen earns 3% a year on money in her savings account. She had \$354 in her account all year. How much interest did she earn?

$$\begin{aligned} \frac{3}{100} &= \frac{x}{354} \\ 100x &= 1062 \\ \frac{100x}{100} &= \frac{1062}{100} \\ x &= 10.62 \end{aligned}$$

Carmen earned \$10.62 in interest.

Tip!

You can also use the formula $I = prt$, where:
 I = total interest paid
 p = principal (money saved)
 r = rate (percent rate)
 t = time, expressed in years

For the previous example,
 $I = \$354 \cdot .03 \cdot 1 = \10.62

Math Text Common Core

David Kirk



Math Text Common Core:

Common Core Standards for Elementary Grades 3-5 Math & English Language Arts Amber Evenson, Monette McIver, Susan Ryan, Amitra Schwols, 2013-03-12 Smart implementation of the Common Core State Standards requires both an overall understanding of the standards and a grasp of their implications for planning teaching and learning This Quick Start Guide provides a succinct all in one look at The content structure terminology and emphases of the Common Core standards for mathematics and English language arts in the upper elementary grades The meaning of the individual standards within each of the four ELA literacy strands and five math domains with an emphasis on areas that represent the most significant changes to business as usual How the standards connect across and within strands domains and grade levels to develop foundational language arts literacy and mathematics learning and prepare students for success in the critical middle school years Here teachers of grades 3 5 and elementary school leaders will find information they need to begin adapting their practices to help all students master the new and challenging material contained in the standards A practical lesson planning process to use with the Common Core based on Classroom Instruction That Works 2nd Ed is included along with six sample lessons LEARN THE ESSENTIALS OF THE COMMON CORE The grade level and subject specific Quick Start Guides in the Understanding the Common Core Standards series edited by John Kendall are designed to help school leaders and school staffs turn Common Core standards into coherent content rich curriculum and effective classroom level lessons Common Core Standards for Elementary Grades K-2 Math & English Language Arts Amber Evenson, Monette McIver, Susan Ryan, 2013-05-20 Smart implementation of the Common Core State Standards requires both an overall understanding of the standards and a grasp of their implications for planning teaching and learning This Quick Start Guide provides a succinct all in one look at The content structure terminology and emphases of the Common Core standards for mathematics and English language arts and literacy in the lower elementary grades The meaning of the individual standards within each of the four ELA literacy strands and five math domains with an emphasis on areas that represent the most significant changes to business as usual How the standards connect across and within strands domains and grade levels to develop the foundational language arts literacy and mathematics understanding that will support a lifetime of successful learning Here teachers of grades K 2 and elementary school leaders will find information they need to begin adapting their practices to help all students master the new and challenging material contained in the standards A practical lesson planning process to use with the Common Core based on Classroom Instruction That Works 2nd Ed is included along with six sample lessons LEARN THE ESSENTIALS OF THE COMMON CORE The grade level and subject specific Quick Start Guides in the Understanding the Common Core Standards series edited by John Kendall are designed to help school leaders and school staffs turn Common Core standards into coherent content rich curriculum and effective classroom level lessons **Teaching to the Math Common Core State Standards** F. D. Rivera, 2014-02-05 This is a methods book for elementary majors and preservice

beginning elementary teachers It takes a very practical approach to learning to teach elementary school mathematics in an emerging Age of the Common Core State Standards The Common Core State Standards in Mathematics CCSSM is not meant to be the official mathematics curriculum it was purposefully developed primarily to provide clear learning expectations of mathematics content that are appropriate at every grade level and to help prepare all students to be ready for college and the workplace A quick glance at the Table of Contents in this book indicates a serious engagement with the recommended mathematics underlying the kindergarten through grade 5 portions of the CCSSM first with issues in content practice assessment learning teaching and classroom management pursued next and in that order In this book we explore what it means to teach to the CCSSM within an alignment mindset involving content practice learning teaching and assessment The CCSSM content standards which pertain to mathematical knowledge skills and applications have been carefully crafted so that they are teachable learnable coherent fewer clearer and higher The practice standards which refer to institutionally valued mathematical actions processes and habits have been conceptualized in ways that will hopefully encourage all elementary students to engage with the content standards more deeply than merely acquiring mathematical knowledge by rote and imitation Thus in the CCSSM proficiency in content alone is not sufficient and so does practice without content which is limited Content and practice are both equally important and thus must come together in teaching learning and assessment in order to support authentic mathematical understanding This blended multisourced text is a getting smart book It helps elementary majors and preservice beginning elementary teachers work within the realities of accountable pedagogy and develop a proactive disposition that is capable of supporting all elementary students in order for them to experience growth in mathematical understanding necessary for middle school and beyond including future careers

Mathematics
 Randall Inners Charles, 2014 **The Math Teacher's Toolbox** Bobson Wong, Larisa Bukalov, 2020-04-28 Math teachers will find the classroom tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Math Teacher s Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core math standards cover the underlying research required technology practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses Topics range from the planning of units lessons tests and homework to conducting formative assessments differentiating instruction motivating students dealing with math anxiety and culturally responsive teaching Easy to read content shows how and why math should be taught as a language and how to

make connections across mathematical units Designed to reduce instructor preparation time and increase student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs advanced students and students with learning differences Offers real world guidance for working with parents guardians and co teachers The Math Teacher s Toolbox Hundreds of Practical ideas to Support Your Students is an invaluable source of real world lessons strategies and techniques for general education teachers and math specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators Common Core Mathematics in a PLC at Work®, Grades K-2 Timothy D. Kanold,2012-04-12 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics grades K 2 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 Reading and Math Practice for the Common Core, Grade 1 Marcia Miller,Martin Lee,2014-06 200 teacher approved practice pages that build essential skills and help children meet Common Core State Standards Common Core State Standards for Mathematics ,2012 *Big Ideas Math* Ron Larson,Laurie Boswell,2017 *Recent Advances in Mathematics Textbook Research and Development* Chunxia Qi,Lianghuo Fan,Jian Liu,Qimeng Liu,Lianchun Dong,2024-11-08 This open access book documents the issues and developments in mathematics textbook research as presented at the Fourth International Conference on Mathematics Textbook Research and Development ICMT 4 held at Beijing Normal University China in November 2022 It showcases research and practical experiences from the mathematics textbook research field from over 20 countries and reflects the current trend of curriculum reform globally in terms of mathematics textbook research It helps readers gain knowledge about various issues related to the development content and use of mathematics textbooks from kindergarten to university level in and out of school settings in paper or digital format as well as the historical and recent developments and future directions in mathematics textbook research ICMT 4 continues the successful series started in 2014 with the first ICMT held in Southampton UK which was followed in 2017 by ICMT 2 in Rio de Janeiro Brazil and in 2019 by ICMT 3 in Paderborn Germany

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