

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.

$$\frac{10 \text{ laps}}{12 \text{ minutes}} = \frac{x}{45} \text{ laps per minute}$$

Bill can run $\frac{x}{45}$ laps per minute. Use the unit rate to solve:

$$\frac{x}{45} = \frac{45}{1} = \frac{225}{45} = 27.5 \text{ laps}$$

Bill can run 27.5 laps in 45 minutes.

Proportions: Two equal ratios.

EX: Solve for x to complete the proportion.

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

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

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

Tony 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.

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

Constant of proportionality: $y = kx$, y varies as 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) |
|--------------|-------------------|----------------------|
| 2 seconds | 50 meters | $\frac{25}{1}$ |
| 2 seconds | 50 meters | $\frac{25}{1}$ |
| 2 seconds | 75 meters | $\frac{25}{1}$ |

Time (t) and distance (d) are directly proportional.

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

25 meters per second is the constant speed.

$$y = kx$$

$$375 = 25x$$

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

$$15 = x$$

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

Percents 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?

$$\begin{aligned} \text{Use a proportion: } \frac{18}{100} &= \frac{x}{253} \\ 100x &= 4554 \\ \frac{100x}{100} &= \frac{4554}{100} \\ x &= 45.54 \end{aligned}$$

The friends should leave a tip of \$45.54.

Tip!

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



Percents 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:

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

There was a 25% increase.

EX: Between 3:00 p.m. and 6:00 p.m., the temperature dropped from 86 degrees to 60 degrees. Find the percent of decrease.

Subtract to find the amount of decrease:

$$86 - 60 = 26$$

Use a proportion:

$$\begin{aligned} \frac{26}{86} &= \frac{x}{100} \\ 86x &= 2600 \\ \frac{86x}{86} &= \frac{2600}{86} \\ x &= 31.8 \end{aligned}$$

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

Common Core Performance Tasks Math Grade 7

Altieri et al., McGraw-Hill Education



Common Core Performance Tasks Math Grade 7:

Common Core Math Activities, Grades 6 - 8 Karise Mace,2015-01-23 Centered around Common Core State Standards Common Core Math Activities features hands on lab activities that allow students to explore and gain deeper understanding of mathematical concepts From Wrapping Packages to Crime Scene Investigation students will be challenged to pull from previous mathematical knowledge and extend it as they investigate mathematical relationships and concepts This 96 page resource features teacher pages which include materials pacing and helpful tips for each lab Each activity is designed to help develops problem solving skills Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character

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Student Assessment ,1991

My Math Countdown to Common Core Mathematics Performance Tasks Gr 5 Altieri et al.,McGraw-Hill Education,2013-09-09

Test Prep for CCSS Performance Tasks, Grade 7 Schyrlet Cameron,Carolyn Craig,2015-01-05 Test Prep for CCSS Performance Tasks is a 64 page three book series for grades six through eight It focuses on performance tasks aligned with the Common Core State Standards CCSS for English Language Arts Literacy The series will help familiarize students with tasks and language they may encounter in Common Core assessments Each book include instruction resources rubrics instructional overview instructional strategies and resources for each performance task Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects

including mathematics sciences language arts social studies history government fine arts and character Countdown to common core ,2016 *Resources in Education* ,1997 **Common Core Math** Marjorie Frank,2014 This activity guide features high appeal themes to ignite student interest great sparks for lessons practice and discussion student friendly assessment and a list of related Common Core state standards *Louise Whiffen Collection* ,1940 Troan Plainwell High School Plainwell Michigan yearbooks 1940 1946 1971 1973 1975 1977 1985 1987 1988 Common Core Student Edition Grade 7 2014 Hmd Hmd,2012-12-31 Unpacking the Standards features focus on important academic vocabulary and offer examples and non examples to clarify learning goals Interactive lessons allow you to actively participate and develop a deeper understanding of math concepts Practice and Problem Solving pages provide opportunities for mathematical modeling as you practice and apply new concepts in real world contexts Leveled Performance Tasks and Problem Solving Connections help you pull together math concepts and skills and apply them to real world situations Assessment Readiness provides you with opportunities to practice and prepare for your high stakes test QR codes make it easy to use your smart phone or tablet to access online resources including video tutorials interactive animations and PARCC assessment readiness practice Back cover **Adolescent Literacy in the Era of the Common Core** Jacy Ippolito,Joshua Fahey Lawrence,Colleen Zaller,2013 Adolescent Literacy in the Era of the Common Core provides school leaders teachers and others with strategies and best practices for advancing adolescent literacy in the classroom Exceptionally clear and accessible the book addresses a full range of topics in this vitally important field including disciplinary literacy vocabulary instruction classroom discussion motivation and engagement related to digital literacy the use of multiple texts and writing to learn This book presents usable knowledge of the highest order and of immediate value to school leaders and teachers It will be required reading for all educators concerned with promoting and furthering adolescent literacy today This volume is packed with new and useful ideas for educators working to promote adolescent literacy Six essential and critical domains are discussed providing instructional examples and frameworks for classroom use This is the right book at the right time describing instruction aligned with the Common Core State Standards Rita M Bean professor emerita University of Pittsburgh A must read for middle and high school content teachers instructional literacy coaches and administrators This book quickly brings newcomers up to date and both affirms and builds upon what others already know Teachers and administrators alike will leave the book fully prepared for implementation of the Common Core State Standards and new technologies This is a resource that won t just sit on a shelf Nancy L Shanklin literacy language and culturally responsive teaching program School of Education and Human Development University of Colorado Denver The editors present research and practice that address six essential domains of adolescent literacy instruction Readers will find instructional strategies that they can do now as well as guiding principles for ongoing professional development Pamela A Mason director Language and Literacy Program and Jeanne Chall Reading Lab Harvard Graduate School of Education Jacy Ippolito is an assistant

professor in the School of Education at Salem State University Joshua Fahey Lawrence is an assistant professor of Language Literacy and Technology in the Department of Education at University of California Irvine Colleen Zaller has a master s degree in applied linguistics with a focus on adolescent literacy and language development among English language learners

Common Core Math Grade 7 Marjorie Frank,2014-09-16 Connected to Common Core State Standards Cover

Mathematics and Science Content Standards and Curriculum Frameworks Rolf K. Blank,State Education Assessment Center (Council of Chief State School Officers),1997 The Council of Chief State School Officers CCSSO collaborating with Policy Studies Associates and a panel of experts in mathematics and science education has completed a study of states curriculum frameworks development and standards setting from 1994 The Council study analyzed the content and quality of state frameworks and standards documents and examined how states are working with local educators on implementation This report describes the changing landscape of framework development and standards setting in the United States and identifies emerging issues for practitioners and policy makers The study was conducted with three kinds of data concerning the current situation of state standards and frameworks in mathematics and science A concept mapping analysis of all state curriculum frameworks and standards documents in mathematics and science was completed In order to identify all current state documents works in progress and dissemination and implementation activities interviews were held with state mathematics and science education specialists With the aggregated information from these sources a report that focuses on current and emerging policy issues pertaining to the implementation of standards based reform in mathematics and science education was developed Contains 27 references Author ASK **National Contexts for Mathematics and Science Education** David F. Robitaille,1997 Beskrivelse af uddannelsessystemer samt l seplaner og l reb ger i matematik og naturvidenskabelige fag fra 38 lande som deltager i TIMSS unders gelsen Thrust for Educational Leadership ,1993

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Table of Contents Common Core Performance Tasks Math Grade 7

1. Understanding the eBook Common Core Performance Tasks Math Grade 7
 - The Rise of Digital Reading Common Core Performance Tasks Math Grade 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Common Core Performance Tasks Math Grade 7
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Common Core Performance Tasks Math Grade 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Common Core Performance Tasks Math Grade 7
 - Personalized Recommendations
 - Common Core Performance Tasks Math Grade 7 User Reviews and Ratings

- Common Core Performance Tasks Math Grade 7 and Bestseller Lists
- 5. Accessing Common Core Performance Tasks Math Grade 7 Free and Paid eBooks
 - Common Core Performance Tasks Math Grade 7 Public Domain eBooks
 - Common Core Performance Tasks Math Grade 7 eBook Subscription Services
 - Common Core Performance Tasks Math Grade 7 Budget-Friendly Options
- 6. Navigating Common Core Performance Tasks Math Grade 7 eBook Formats
 - ePub, PDF, MOBI, and More
 - Common Core Performance Tasks Math Grade 7 Compatibility with Devices
 - Common Core Performance Tasks Math Grade 7 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Common Core Performance Tasks Math Grade 7
 - Highlighting and Note-Taking Common Core Performance Tasks Math Grade 7
 - Interactive Elements Common Core Performance Tasks Math Grade 7
- 8. Staying Engaged with Common Core Performance Tasks Math Grade 7
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Common Core Performance Tasks Math Grade 7
- 9. Balancing eBooks and Physical Books Common Core Performance Tasks Math Grade 7
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Common Core Performance Tasks Math Grade 7
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Common Core Performance Tasks Math Grade 7
 - Setting Reading Goals Common Core Performance Tasks Math Grade 7
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Common Core Performance Tasks Math Grade 7
 - Fact-Checking eBook Content of Common Core Performance Tasks Math Grade 7
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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