

# 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:

$$\frac{5}{6} = \frac{45}{1} = \frac{225}{6} = 37.5 \text{ laps}$$

Bill can run 37.5 laps in 45 minutes.

**Proportions:** Two equal ratios.

**EX:** Solve for  $x$  to complete the proportion.

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

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

**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.

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

25 meters per second is the constant speed.

$$\begin{aligned} y &= kx \\ 375 &= 25x \\ \frac{375}{25} &= \frac{25x}{25} \\ 15 &= x \end{aligned}$$

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.



### 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?

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

The friends should leave a tip of \$41.94.

### 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 85 degrees to 60 degrees. Find the percent of decrease.

Subtract to find the amount of decrease:  
 $85 - 60 = 25$

Use a proportion:

$$\begin{aligned} \frac{25}{85} &= \frac{x}{100} \\ 85x &= 2500 \\ \frac{85x}{85} &= \frac{2500}{85} \\ x &= 31.8 \end{aligned}$$

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:  
 $i = \$354 \times .03 \times 1 = \$10.62$

# 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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New York Math Performance Tasks (Grade 7), 2002-11-01 This teacher resource provides lessons in math problem solving Instructional sections include 1 Making Sense of Problem Solving 2 Developing Skills which are Assessed with NYS Rubrics 3 16 units with Warm Up Performance Task Extension black line masters student samples and scored NYS rubrics

**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

## Decoding **Common Core Performance Tasks Math Grade 7**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Common Core Performance Tasks Math Grade 7**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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
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