

Math

Common Core State Standards

6th Grade

Ratios & proportions, division, integers, expressions & equations, properties, volume, area, data analysis, probability & more!

RATIOS & PROPORTIONS

Ratio: Compares two numbers by division; expressed in one of three ways: 3 to 2, or $\frac{3}{2}$; ratios can be shown in different ways:



- **Part to parts:** The ratio of white stars to gold stars is $\frac{2}{3}$ or $\frac{1}{1.5}$.
- **Part to whole:** The ratio of white stars to the total number of stars is $\frac{2}{5}$ or $\frac{1}{2.5}$.
- **Whole to whole:** The number of circles to the number of stars is $\frac{5}{8}$.

Rate: A ratio comparing two numbers representing different units by division; rates must have labels; unit rate has a denominator of 1;
EX: 18 miles per gallon

Percent (%): Means "out of 100"; a ratio comparing a number to 100

Proportions: Two equal ratios; if two ratios are equal, then their cross products are equal

EX: $\frac{2}{3} = \frac{4}{6}$, so $2 \times 6 = 3 \times 4$, and $12 = 12$

Percent Ratios

x is what percent of y ?

$$\text{Solve using: } \frac{x}{100} = \frac{\%}{100}$$

$$\text{or, } \frac{x}{y} = \frac{\%}{100}$$

EX: What is 60% of 90? $\frac{x}{90} = \frac{60}{100}$

1,000 is what percent of 500? $\frac{1,000}{500} = \frac{x}{100}$

20 is 75% of what number? $\frac{20}{x} = \frac{75}{100}$

Speed Formula:

$$s = \frac{d}{t}, \text{ where: } s = \text{speed (rate)}$$

$$d = \text{distance}$$

$$t = \text{time}$$

A car travels at a constant speed of 65 miles per hour.
How far will the car travel in 3.5 hours?

$$65 \times 3.5 = 227.5 \text{ miles}$$

The car will travel 227.5 miles in 3.5 hours.

Equivalent Ratios

Legs	4	8	12	16	20
Coors	1	2	3	4	5
Ratio	1:4	2:8	3:12	4:16	5:20

Seconds	60	120	180	240	300
Minutes	1	2	3	4	5
Ratio	1:60	2:120	3:180	4:240	5:300

Minutes	60	120	180	240	300
Hours	1	2	3	4	5
Ratio	1:60	2:120	3:180	4:240	5:300

Hours	24	48	72	96	120
Days	1	2	3	4	5
Ratio	1:24	2:48	3:72	4:96	5:120

Days	7	14	21	28	35
Weeks	1	2	3	4	5
Ratio	1:7	2:14	3:21	4:28	5:35

Weeks	4.5	9.0	13.5	18.0	22.5
Months	1	2	3	4	5
Ratio	1:4.5	2:9.0	3:13.5	4:18.0	5:22.5

Months	12	24	36	48	60
Years	1	2	3	4	5
Ratio	1:12	2:24	3:36	4:48	5:60

Rate Conversions

To change 4 kilometers per minute to kilometers per hour:

$$\frac{4 \text{ km}}{1 \text{ min}} = \frac{60 \text{ min}}{1 \text{ hr}} = 240 \text{ km/hr}$$

To change 120 ounces per square inch to pounds per square foot:

$$\frac{120 \text{ oz}}{1 \text{ in}^2} = \frac{144 \text{ in}^2}{1 \text{ ft}^2} = \frac{16 \text{ lb}}{16 \text{ oz}} = \left(\frac{120 \times 144}{16} \right) \left(\frac{1 \text{ lb}}{16 \text{ oz}} \right) = 1,280 \text{ lb/ft}^2$$

EX: Madeline works 60 hours every 3 weeks. At this rate, how many hours will Madeline work in 12 weeks?

First, find the unit rate:

$$\frac{60}{3} = \frac{20}{1}$$

$$20 \times 12 = 240$$

Madeline will work 240 hours in 12 weeks.

Pens are being sold at a price of 3 pens for \$2.70. How much would 10 pens cost?

First, find the unit price:

$$\frac{\$2.70}{3} = \$0.90$$

$$\$0.90 \times 10 = \$9.00$$

Ten pens would cost \$9.00.

DIVISION

Dividing Fractions

Need common denominator?	No
Use a mixed number?	No, change to improper fraction
Cross cancel?	Yes
Use the reciprocal?	Multiply by the reciprocal
Process	"Keep it, change it, flip it"; then use multiplication rules
Reduce (simplify) to lowest terms?	Yes

EX:

$$\frac{5}{9} \div \frac{4}{9} = \frac{5}{9} \times \frac{9}{4} = \frac{5}{4} = 1 \frac{1}{4}$$

$$\frac{3}{5} \div \frac{2}{3} = \frac{3}{5} \times \frac{3}{2} = \frac{9}{10}$$

$$\frac{1}{3} \div \frac{7}{8} = \frac{1}{3} \times \frac{8}{7} = \frac{8}{21}$$

You can use models to divide fractions:



There are six $\frac{1}{3}$'s in $\frac{2}{3}$, so $\frac{2}{3} \div \frac{1}{3} = 6$

Jane is making bows that require $2 \frac{3}{4}$ feet of ribbon each.

How many bows can Jane make if she has a spool of ribbon with $7 \frac{1}{2}$ yards of ribbon on it?

$$\left(\frac{15}{2} \div \frac{5}{4} \right) = \frac{15}{2} \times \frac{4}{5} = \frac{40}{10} = 4$$

Jane can make 4 bows and will have $\frac{2}{11}$ feet of ribbon left over.

Dividing Multi-Digit Numbers

- Write the problem in long-division format
- Use compatible numbers to predict the first digit
- Multiply
- Subtract
- Bring down the next digit, if there is one
- Repeat the process until the number is too small to divide
- Record the remainder

$$\begin{array}{r} 207 \\ 25 \overline{)5140} \\ \underline{500} \\ 140 \\ \underline{140} \\ 0 \end{array}$$

$$207 \text{ R } 12$$

$$207 \overline{)2484}$$

$$\begin{array}{r} 12 \\ 207 \overline{)2484} \\ \underline{2484} \\ 0 \end{array}$$



Grade Mathematics Study Guide

Speedy Publishing

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Speedy Publishing text.

Grade Mathematics Study Guide:

Eureka Math Pre-K Study Guide Great Minds,2016-08-02 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade PK provides an overview of all of the Pre Kindergarten modules including Counting to 5 Shapes Counting to 10 Comparison of Length Weight Capacity and Numbers to 5 and Addition and Subtraction Stories and Counting to 20 *Common Core Mathematics Grade 7* Castle Rock Research Corp.,2014 A comprehensive study guide with age and grade appropriate content designed to familiarize students with new Common Core State Standards With content developed by a team of teachers and curriculum specialists and reviewed by assessment experts with a minimum of five years of classroom teaching experience SOLARO mathematics study guides are wholly curriculum aligned and serve as an excellent source of material for review and practice Each guide breaks down the Common Core State Standards into teachable units making it simple for educators and students to identify key learning concepts and how they align with the accompanying exercises and assessments The practice questions and sample tests have detailed solutions that show problem solving methods highlight concepts that are likely to be tested and point out potential sources of errors The multiplatform SOLARO study solution also features additional learning tools in the complementary online version and is designed to be used by students throughout the school year for reviewing and understanding course content preparing for assessments and ultimately achieving success Intended for seventh grade students who are learning the new Common Core State Standards in school this study guide features curriculum aligned lessons activities exercises and quizzes **Eureka Math Grade 7 Study Guide** Great Minds,2016-04-20 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in

Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 7 provides an overview of all of the Grade 7 modules including Ratios and Proportional Relationships Rational Numbers Expressions and Equations Percent and Proportional Relationships Statistics and Probability Geometry [Math Common Core 4th Grade \(Speedy Study Guide\)](#) Speedy Publishing,2014-12-28 A math common core 4th grade study guide helps kids learn in several different ways First a study guide provides an outline and shows what kids will be learning and how learning different math skills will progress through the program Second kids will benefit from knowing what to expect from their math program Third focus is important when learning new skills and a study guide will help keep kids attention

Eureka Math Grade 1 Study Guide Great Minds,2015-09-18 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that

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Grade 2 Study Guide Great Minds,2015-11-09 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 2 provides an overview of all of the Grade 2 modules including Sums and Differences to 20 Addition and Subtraction of Length Units Place Value Counting and Comparison of Numbers to 1 000 Addition and Subtraction Within 200 with Word Problems to 100 Addition and Subtraction Within 1 000 with Word Problems to 100 Foundations of Multiplication and Division Problem Solving with Length Money and Data and Time Shapes and Fractions as Equal Parts of Shapes *Eureka Math Grade 8 Study Guide* Great Minds,2016-05-16 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into

expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 8 provides an overview of all of the Grade 8 modules including Integer Exponents and Scientific Notation The Concept of Congruence Similarity Linear Equations Examples of Functions from Geometry Linear Functions Introduction to Irrational Numbers Using Geometry

Eureka Math Curriculum Study Guide Common Core, 2015-03-23 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade K provides an overview of all of the Kindergarten modules including Numbers to 10 Two Dimensional and Three Dimensional Shapes Comparison of Length Weight Capacity and Numbers to 10 Number Pairs Addition and Subtraction to 10 Numbers 10 20 and Counting to 10 and Analyzing Comparing and Composing Shapes

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Eureka Math Grade K Study Guide Great Minds,2015-09-18 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students

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an excellent source of material for review and practice Each guide breaks down the Common Core State Standards into teachable units making it simple for educators and students to identify key learning concepts and how they align with the accompanying exercises and assessments The practice questions and sample tests have detailed solutions that show problem solving methods highlight concepts that are likely to be tested and point out potential sources of errors The multiplatform SOLARO study solution also features additional learning tools in the complementary online version and is designed to be used by students throughout the school year for reviewing and understanding course content preparing for assessments and ultimately achieving success Intended for third grade students who are learning the new Common Core State Standards in school this study guide features curriculum aligned lessons activities exercises and quizzes *Georgia CRCT (REA) - the Best Test Prep for 8th Grade Math* Stephen Hearne, 2005-03-31 REA Real review Real practice Real results REA's Georgia Grade 8 CRCT Math Study Guide Fully aligned with the Georgia Dept of Education's Quality Core Curriculum Are you prepared to excel on this state high stakes assessment exam Take the diagnostic Pretest and find out what you know and what you should know Use REA's advice and tips to ready yourself for proper study and practice Sharpen your knowledge and skills The book's full subject review refreshes knowledge and covers all topics on the official exam and includes numerous examples diagrams and charts to illustrate and reinforce key math lessons Smart and friendly lessons reinforce necessary skills Key tutorials enhance specific abilities needed on the test Targeted drills increase comprehension and help organize study Color icons and graphics highlight important concepts and tasks Practice for real Create the closest experience to test day conditions with a full length practice Posttest Chart your progress with detailed explanations of each answer Boost confidence with test taking strategies and focused drills Ideal for Classroom Family or Solo Test Preparation REA has helped generations of students study smart and excel on the important tests REA's study guides for state required exams are teacher recommended and written by experts who have mastered the test **Common Core State Standards: Math 6th Grade (Speedy Study Guides)** Speedy Publishing, 2015-04-27 6th grade math is oftentimes seen as an impossible task with its ratios fractions equations and statistical thinking The challenge therefore for the teacher is to completely reverse such mindset by making the task actually entertaining This guide holds valuable information on activities and concepts that make learning 6th grade math a walk in the park Be sure to secure your copy today Common Core State Standards: Math 9th Grade (Speedy Study Guides) Speedy Publishing, 2015-04-27 By this time your 9th grade students should already have a strong foundation of the basic math concepts Your job now as a teacher would be to augment their knowledge and widen it by introducing number systems Tracing the thin line between systems can be confusing for students but if you follow the information in this guide your students will soon be getting A's and B's

Unveiling the Magic of Words: A Review of "**Grade Mathematics Study Guide**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Grade Mathematics Study Guide**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

https://staging.conocer.cide.edu/book/publication/HomePages/Kawasaki_Drifter_150manual.pdf

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