

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:

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

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

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?

$$\left(\frac{15}{2} \div \frac{5}{4} \right) = \frac{15}{2} \times \frac{4}{5} = \frac{40}{10} = \frac{80}{10} = 8 \frac{2}{10}$$

Jane can make 8 bows and will have $\frac{2}{10}$ 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

$$\begin{array}{r} 207 \\ 25 \overline{)5407} \\ \underline{500} \\ 407 \\ \underline{400} \\ 70 \\ \underline{70} \\ 0 \end{array}$$

$$207 \text{ R } 12$$

$$207 \overline{)2484}$$

$$\underline{214} \\ 344 \\ \underline{336} \\ 80 \\ \underline{80} \\ 0$$

Grade Mathematics Study Guide

David Kirk



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

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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 6 provides an overview of all of the Grade 6 modules including Ratios and Unit Rates Arithmetic Operations Including Dividing by a Fraction Rational Numbers Expressions and Equations Area Surface Area and Volume Problems Statistics

Math Common Core 7Th Grade (Speedy Study Guides) Speedy Publishing,2014-05-04 The Math Common Core 7th grade represents a program of study to be taught in public schools Specifically by the end of the seventh grade students are taught and expected to master five critical domains 1 expressions and equations 2 geometry 3 ratios and proportional relationships 4 the number system and 5 statistics and probability A national education standard is one of the many benefits that was created by the Math Common Core 7th grade Further the standard provides rigorous academic goals In doing so students are better prepared to compete with their foreign counterparts thus ensuring a promising future Eureka Math Grade 7 Study Guide Great Minds,2016-04-25 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 **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

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Equations Examples of Functions from Geometry Linear Functions Introduction to Irrational Numbers Using Geometry

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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 is 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.

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modules including Properties of Multiplication and Division and Solving Problems with Units of 2 5 and 10 Place Value and Problem Solving with Units of Measure Multiplication and Division with Units of 0 1 6 9 and Multiples of 10 Multiplication and Area Fractions as Numbers on the Number Line and Collecting and Displaying Data **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 **Study and Master**

Mathematics Grade 10 CAPS Study Guide Noleen Jakins,Deirdre Yeo,2015-05-22

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