

Math

Common Core State Standards

6th Grade

Ratios & proportions, division, integers, exponents & 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, 3 to 2,

or $\frac{3}{2}$; ratios can be shown in different ways:



- **Part to part:** The ratio of white stars to gold stars is $\frac{3}{2}$ or $\frac{3}{2}$.
- **Part to whole:** The ratio of white stars to the total number of stars is $\frac{3}{5}$ or $\frac{3}{5}$.
- **Whole to whole:** The number of circles to the number of stars is $\frac{10}{5}$.

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 ?

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

$$\frac{\%}{y} = \frac{x}{100}$$

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

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

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?

The car will travel 227.5 miles in 3.5 hours.

Equivalent Ratios

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

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

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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	4.1	8.2	12.3	16.4	20.5
Months	1	2	3	4	5
Ratio	1:4.1	2:8.2	3:12.3	4:16.4	5:20.5

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:

$$\frac{120 \text{ oz}}{1 \text{ in}^2} = \frac{144 \text{ oz}}{1 \text{ ft}^2} = \frac{144}{16} = 9 \text{ lbs}$$

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:

$$\$2.70 \div 3 = \$0.90$$

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

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:

$$\frac{5}{8} \div \frac{4}{9} = \frac{5}{8} \times \frac{9}{4} = \frac{45}{32} = 1 \frac{13}{32}$$

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

$$1 \frac{1}{3} \div 2 \frac{7}{8} = \frac{10}{3} \div \frac{23}{8} = \frac{10}{3} \times \frac{8}{23} = \frac{80}{69} = 1 \frac{11}{69}$$

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?

$$\left(\frac{15}{2} \div \frac{11}{4} \right) = \frac{15}{2} \times \frac{4}{11} = \frac{60}{22} = \frac{30}{11} = 2 \frac{8}{11}$$

Jane can make 2 bows and will have $\frac{8}{11}$ feet of ribbon left over.

Dividing Multi-Digit Numbers

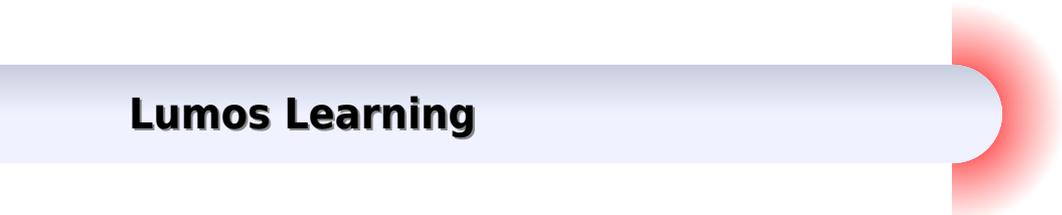
- Write the problem in long-division format
- Use compatible numbers to predict the first digit
- Multiply
- Subtract
- Bring down the next digit, if there is one
- Repeat the process until the number is too small to divide
- Record the remainder

$$\begin{array}{r} 207 \\ 25 \overline{) 5245} \\ \underline{500} \\ 245 \\ \underline{245} \\ 0 \\ \underline{0} \\ 0 \end{array}$$



6th Grade Math Study Guide

Lumos Learning



6th Grade Math Study Guide:

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 6th Grade (Speedy Study Guides)* Common Core State Standards: Math 6th Grade (Speedy Study Guides) Speedy Publishing LLC, 2015-04-25 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 *6th Grade Rhode Island Math for Beginners* Hamid Eslamian, 2025-06-24 6th Grade Rhode Island Math Comprehensive Aligned with Rhode Island Math Standards Get your child ready to excel on the RICAS Rhode Island Comprehensive Assessment System with this complete and easy to understand 6th Grade Math Study Guide Aligned with the Rhode Island Grade Level Expectations and built to reflect the structure of the RICAS assessment this study guide provides everything students need to build strong skills and perform with confidence Whether your child is catching up or aiming to go above grade level this guide covers all essential math concepts fractions decimals ratios integers expressions equations geometry statistics and probability with step by step explanations real life examples and RICAS style practice questions that mirror the state test Why This RICAS Math Study Guide Is Right for Rhode Island Students Fully aligned with Rhode Island standards Each lesson is designed to reinforce the skills needed to meet state expectations Modeled after RICAS Practice questions follow the format of the official test to boost familiarity and reduce test day stress Easy to follow lessons Concepts are broken down clearly so students at any level can understand and grow Real world math practice Engaging word problems show how math applies to everyday life Flexible for every learner Ideal for classroom instruction homeschool support tutoring or at home reinforcement This study guide is the perfect companion for preparing for the RICAS 6th Grade Math assessment reinforcing schoolwork and building long term confidence in math Published by Mathfa trusted by educators and families for delivering high quality standards based math study guides tailored to Rhode Island learners *Math Common Core 6th Grade (Speedy Study Guides)* Speedy Publishing, 2014-07-03 More mathematical concepts are addressed at younger ages as a result of Common Core State Standards In the 6th grade students do much more in depth work with geometry ratio and percentage as well as statistics and probability This is not the first time these concepts are addressed though The Common Core approach requires going deeper into content learned in earlier years Because of this need to look at each grade instead of just one year a reference guide for parents and guardians would provide a much better snapshot showing the big picture mathematical goal for each

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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 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

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6th Grade Wisconsin Math for Beginners Hamid Eslamian, 2025-06-26

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