

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 $\frac{0}{0}$.

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:

$$\frac{120 \text{ oz}}{1 \text{ sq in}} = \frac{144 \text{ sq in}}{1 \text{ sq ft}} = \frac{16 \text{ lb}}{1 \text{ sq ft}} = \frac{120 \times 144}{16} = 1,080 \text{ lb/sq ft}$$

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 $\frac{5}{6} \div \frac{2}{3} = 2 \frac{1}{2}$

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?

$$\left(\frac{15}{2} \div \frac{5}{4} \right) = \frac{15}{2} \times \frac{4}{5} = \frac{60}{10} = 6$$

Jane can make 6 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

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

$$207 \times 25 = 5175$$

$$5407 - 5175 = 232$$

$$232 \div 25 = 9 \text{ R } 7$$

$$207 \times 25 = 5175$$

$$207 \times 26 = 5382$$

$$207 \times 27 = 5589$$

$$207 \times 28 = 5796$$

$$207 \times 29 = 6003$$

$$207 \times 30 = 6210$$

$$207 \times 31 = 6417$$

$$207 \times 32 = 6624$$

$$207 \times 33 = 6831$$

$$207 \times 34 = 7038$$

$$207 \times 35 = 7245$$

$$207 \times 36 = 7452$$

$$207 \times 37 = 7659$$

$$207 \times 38 = 7866$$

$$207 \times 39 = 8073$$

$$207 \times 40 = 8280$$

$$207 \times 41 = 8487$$

$$207 \times 42 = 8694$$

$$207 \times 43 = 8901$$

$$207 \times 44 = 9108$$

$$207 \times 45 = 9315$$

$$207 \times 46 = 9522$$

$$207 \times 47 = 9729$$

$$207 \times 48 = 9936$$

$$207 \times 49 = 10143$$

$$207 \times 50 = 10350$$

$$207 \times 51 = 10557$$

$$207 \times 52 = 10764$$

$$207 \times 53 = 10971$$

$$207 \times 54 = 11178$$

$$207 \times 55 = 11385$$

$$207 \times 56 = 11592$$

$$207 \times 57 = 11799$$

$$207 \times 58 = 12006$$

$$207 \times 59 = 12213$$

$$207 \times 60 = 12420$$

$$207 \times 61 = 12627$$

$$207 \times 62 = 12834$$

$$207 \times 63 = 13041$$

$$207 \times 64 = 13248$$

$$207 \times 65 = 13455$$

$$207 \times 66 = 13662$$

$$207 \times 67 = 13869$$

$$207 \times 68 = 14076$$

$$207 \times 69 = 14283$$

$$207 \times 70 = 14490$$

$$207 \times 71 = 14697$$

$$207 \times 72 = 14904$$

$$207 \times 73 = 15111$$

$$207 \times 74 = 15318$$

$$207 \times 75 = 15525$$

$$207 \times 76 = 15732$$

$$207 \times 77 = 15939$$

$$207 \times 78 = 16146$$

$$207 \times 79 = 16353$$

$$207 \times 80 = 16560$$

$$207 \times 81 = 16767$$

$$207 \times 82 = 16974$$

$$207 \times 83 = 17181$$

$$207 \times 84 = 17388$$

$$207 \times 85 = 17595$$

$$207 \times 86 = 17802$$

$$207 \times 87 = 18009$$

$$207 \times 88 = 18216$$

$$207 \times 89 = 18423$$

$$207 \times 90 = 18630$$

$$207 \times 91 = 18837$$

$$207 \times 92 = 19044$$

$$207 \times 93 = 19251$$

$$207 \times 94 = 19458$$

$$207 \times 95 = 19665$$

$$207 \times 96 = 19872$$

$$207 \times 97 = 20079$$

$$207 \times 98 = 20286$$

$$207 \times 99 = 20493$$

$$207 \times 100 = 20700$$

6th Grade Math Study Guide

L Reisser



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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handling challenging questions with ease Diagnostic Assessments Initial tests help students evaluate their current level
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Table of Contents 6th Grade Math Study Guide

1. Understanding the eBook 6th Grade Math Study Guide
 - The Rise of Digital Reading 6th Grade Math Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying 6th Grade Math Study Guide
 - 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 6th Grade Math Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from 6th Grade Math Study Guide
 - Personalized Recommendations
 - 6th Grade Math Study Guide User Reviews and Ratings
 - 6th Grade Math Study Guide and Bestseller Lists
5. Accessing 6th Grade Math Study Guide Free and Paid eBooks
 - 6th Grade Math Study Guide Public Domain eBooks
 - 6th Grade Math Study Guide eBook Subscription Services
 - 6th Grade Math Study Guide Budget-Friendly Options

6. Navigating 6th Grade Math Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - 6th Grade Math Study Guide Compatibility with Devices
 - 6th Grade Math Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 6th Grade Math Study Guide
 - Highlighting and Note-Taking 6th Grade Math Study Guide
 - Interactive Elements 6th Grade Math Study Guide
8. Staying Engaged with 6th Grade Math Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 6th Grade Math Study Guide
9. Balancing eBooks and Physical Books 6th Grade Math Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 6th Grade Math Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 6th Grade Math Study Guide
 - Setting Reading Goals 6th Grade Math Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 6th Grade Math Study Guide
 - Fact-Checking eBook Content of 6th Grade Math Study Guide
 - 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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