

Math

Common Core State Standards

6th Grade

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

RATIOS & PROPORTIONS

Ratios Compare 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 $\frac{2}{4} = \frac{1}{2}$.
- **Part to whole:** The ratio of white stars to the total number of stars is $\frac{2}{6} = \frac{1}{3}$.
- **Whole to whole:** The number of circles to the number of stars is $\frac{6}{9}$.

Rates: 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	1	2	3	4	5
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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	8	12	16	20
Months	1	2	3	4	5
Ratio	1:4	2:8	3:12	4:16	5:20

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:

$$\frac{120 \text{ oz}}{1 \text{ in}^2} = \frac{144 \text{ oz}}{1 \text{ ft}^2} = \frac{144}{16} \times \frac{1 \text{ lb}}{16 \text{ oz}} = \frac{144 \times 1 \text{ lb}}{16 \times 16 \text{ oz}} = 1 \text{ lb/in}^2$$

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:

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

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

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:

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

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

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

You can use models to divide fractions:



There are six $\frac{1}{9}$'s in $\frac{2}{3}$, so $\frac{2}{3} \div \frac{1}{9} = 6$

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

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



Grade Math Study Guide

Yi-Tong Ma



Grade Math Study Guide:

The book delves into Grade Math Study Guide. Grade Math Study Guide is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Grade Math Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Grade Math Study Guide
 - Chapter 2: Essential Elements of Grade Math Study Guide
 - Chapter 3: Grade Math Study Guide in Everyday Life
 - Chapter 4: Grade Math Study Guide in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Grade Math Study Guide. The first chapter will explore what Grade Math Study Guide is, why Grade Math Study Guide is vital, and how to effectively learn about Grade Math Study Guide.
3. In chapter 2, the author will delve into the foundational concepts of Grade Math Study Guide. The second chapter will elucidate the essential principles that must be understood to grasp Grade Math Study Guide in its entirety.
4. In chapter 3, this book will examine the practical applications of Grade Math Study Guide in daily life. The third chapter will showcase real-world examples of how Grade Math Study Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Grade Math Study Guide in specific contexts. This chapter will explore how Grade Math Study Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Grade Math Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Grade Math Study Guide.

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Table of Contents Grade Math Study Guide

1. Understanding the eBook Grade Math Study Guide

- The Rise of Digital Reading Grade Math Study Guide
- Advantages of eBooks Over Traditional Books
- 2. Identifying 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 Grade Math Study Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade Math Study Guide
 - Personalized Recommendations
 - Grade Math Study Guide User Reviews and Ratings
 - Grade Math Study Guide and Bestseller Lists
- 5. Accessing Grade Math Study Guide Free and Paid eBooks
 - Grade Math Study Guide Public Domain eBooks
 - Grade Math Study Guide eBook Subscription Services
 - Grade Math Study Guide Budget-Friendly Options
- 6. Navigating Grade Math Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade Math Study Guide Compatibility with Devices
 - Grade Math Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade Math Study Guide
 - Highlighting and Note-Taking Grade Math Study Guide
 - Interactive Elements Grade Math Study Guide
- 8. Staying Engaged with Grade Math Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade Math Study Guide

9. Balancing eBooks and Physical Books Grade Math Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade Math Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade Math Study Guide
 - Setting Reading Goals Grade Math Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade Math Study Guide
 - Fact-Checking eBook Content of 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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