# Common Core

State Standards





#### RATIOS & PROPORTIONS

Raties Companys two numbers by division: expressed in one of three ways: 3:2, 3 to 2.

or 2; rather can be shown in different ways:



- · Part to part: The ratio of white stars to gold
- . Part to whole: The ratio of white stars to the total number of stars is  $\frac{2}{\pi} = \frac{1}{4}$
- · Whole to whole: The number of circles to the mumber of stars in it

Rate: A ratio comparing two numbers representing different units by division; rates must have habelic unit rate but a decominator of It-EX: 18 miles per gallon.

Percent (%)s: Means "out of 100"; a ratio comparing a much ber to 200

Perperties: Two equal ratios; if two ratios are count, then their errors products are your

EN:  $\frac{2}{3} \log \frac{4}{6}$ , so 2 = 6 = 3 = 4, and 12 = 12

#### Percent Ratios

y in what personnt of s?

Solve using: 
$$\frac{dr}{dr} = \frac{S_0}{100}$$
  
 $\frac{2}{y} = \frac{z}{100}$ 

EX: What is 60% of 907 -

1,000 is what persons of 5000 1,000 x

20 is 75% of what number? 20 ... 15

#### Second Servender:

A continued out at Company speed of All mallers per house. How for will the our top-of in 3.5 hours?

63 mg	di.		di.	
		3.3	ben	-
65 N 3	25-	1227	250	and the same

The car will proved 227.5 policy in 3.5 hours.

#### Equivalent Ratios

Logo	100	1	10	100	36
Cherry	0.00	100	1		- 1
Bartin	1-0	7.39	3.12	4.50	1.00

Nements	100	1.00	196	200	Total .
-	2011	1000	100	100.00	100
Balle	1.00	25.530	3.796	4340	31,000

Shown .		2.0	100	100	
Batte	13,660	REAL PROPERTY.	3.000	34300	3300

Batte	3.34	296	100	100	9.100
Begg	No. 144	194	- 31	291	0.99
Wante		100	- 1	100	1.5
Butter	1.80	(2.54)	1,000	4.28	1,3300

Street	1435	0.61	1000	DOM:	1000
Months	200	100	100	100 A 100	100
Section 1	196.30	DESCRIPTION OF THE PERSON OF T	2000	EXCESS OF	200.0

The second second					
March	1.10	234.0	180	- 86	1.00
Steparts	-1-	1.2	50.00		1.3
Badle	110.2	July 1	10.00	4.40	2000

#### Rate Conversions

To change 4 killometers per minute to killemeters per bourt.

To change 120 owners per square inch to pounds per square from:

$$\frac{(2m_{_{\rm B}})^2}{(2m_{_{\rm B}})^2} = \frac{144}{148} \frac{(4m_{_{\rm B}})^2}{(4m_{_{\rm B}})^2} + \frac{(4m_{_{\rm B}})^2}{(4m_{_{\rm B}})^2} + \frac{(4m_{_{\rm B}})^2}{(4m_{_{\rm B}})^2} \frac{(4m_{_{\rm B}})^2}{(4m_{_{\rm B}})$$

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

First, find the unit rate:

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

$$20 \times 12 = 240$$

Madeline will work 240 boors 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:

52.70 + 3 - 50.90\$0.90 × 10 - \$9.00

Ties pers would cost \$9:00.

#### DIVISION

#### **Dividing Fractions**

Nord common denominator?	No
Use a mixed number?	No, change to improper fraction
Cress cancel?	Time
Use the reciprocal?	Multiply by the reciprocal
Process	"Koop it, change it, flip it"; then one multiplication rules
Reduce (simplify) to	

### Benefit Service?

$$3\frac{3}{5} + 2\frac{7}{8} + \frac{18}{3} + \frac{43}{8} + \frac{26^{\circ}}{3} + \frac{8}{46^{\circ}} + \frac{2}{5} + \frac{8}{7} + \frac{19}{2}$$

You can use models to divide fractions





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

Same in making hower than require 2 then of ribbon such.

How many hows can June make if she has a spoul of ribbon with 7 gards of elithers on left

$$\left(\frac{15}{2} \times \frac{3}{1}\right) \times \frac{11}{4} \times \frac{45}{2} \times \frac{4^{2}}{11} \times \frac{90}{11} \times 8 \times \frac{2}{11}$$

Asser can make 8 bown and will have 4 feet of ribbon hell west.

#### **Dividing Multi-Digit Numbers**

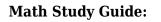
- · Morine the produtions in Bong division format Use compatible numbers
- to predict the first digit Multiply · Substitute.
- Belong shown the next alight. 16 shore in one Repeat the process sent?
- the number is too small. no divide
- Record the symulation



H-2005-MI

## **Math Study Guide**

**RJ Shavelson** 



#### Math Study Guide Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Math Study Guide**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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#### **Table of Contents Math Study Guide**

- 1. Understanding the eBook Math Study Guide
  - The Rise of Digital Reading Math Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Math Study Guide
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Math Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Math Study Guide
  - Personalized Recommendations
  - Math Study Guide User Reviews and Ratings
  - Math Study Guide and Bestseller Lists

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