

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:

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

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

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?

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

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

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

$$207 \times 21 = 4347$$

$$207 \times 22 = 4554$$



Mathematics Study Guide

Shevonica M. Howell



Mathematics Study Guide:

NES Mathematics Study Guide Trivium Test Prep (Firm).,National Evaluation Series,2013 Trivium Test Prep study guides are streamlined and concept driven Curriculum for Excellence Brian J. Logan,2013 Nes Academic Skills Subtest III - Mathematics Study Guide: Test Prep and Practice Questions Trivium Test Prep,2015-08-14 Think all NES Academic Skills Subtest III study guides are the same Think again With easy to understand lessons and practice test questions esigned to maximize your score you ll be ready You don t want to waste time and money retaking an exam You want to accelerate your education not miss opportunities for starting your future career Every year thousands of people think that they are ready for the NES Academic Skills exam but realize too late when they get their score back that they were not ready at all They weren t incapable and they certainly did their best but they simply weren t studying the right way There are a variety of methods to prepare for the NES Academic Skills exam and they get a variety of results Trivium Test Prep s NES Academic Skills Subtest III study guide provides the information secrets and confidence needed to get you the score you need the first time around Losing points on the NES Academic Skills Subtest exam can cost you precious time money and effort that you shouldn t have to spend What is in the book In our Academic Skills subtest III study guide you get the most comprehensive review of all tested concepts The subjects are easy to understand and have fully explained example questions to ensure that you master the material Best of all we show you how this information will be applied on the real exam NES Academic Skills Subtest III practice questions are included so that you can know without a doubt that you are prepared Our study guide is streamlined and concept driven so you get better results through more effective study time Why spend days or even weeks reading through meaningless junk trying to sort out the helpful information from the fluff We give you everything you need to know in a concise comprehensive and effective package *College Mathematics CLEP Test Study Guide* Passyourclass,2020-02-06 2020 Edition Our CLEP study guides are different The College Mathematics CLEP study guide TEACHES you what you need to know to pass the CLEP test This study guide is more than just pages of sample test questions Our easy to understand study guide will TEACH you the information We ve condensed what you need to know into a manageable book one that will leave you completely prepared to tackle the test This study guide includes sample test questions that will test your knowledge AND teach you new material Your College Mathematics CLEP study guide also includes flashcards that are bound into the back of the book Use these to memorize key concepts and terms Anyone can take and pass a CLEP test What are you waiting for Testimonial I just wanted to let you know that I used your College Mathematics study guide and passed my test I had not picked up a math book since high school 12 years ago Thank you for the great guide I am now studying for my Natural Sciences and US History I II tests I will be using your guides for those tests as well Thank you John S **Math Study Guide, Virginia Standardized Tests** Learning Hand (CRT),2007-02-01 Math is learned by practice The more the practice the better a student becomes at math This Math Study Guide contains lots of

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Subject Tests Richard F. Corn,2011-10-01 A study guide for the mathematics sections in the SAT SAT subject tests and ACT

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Induction Jianlun Xu,2020-04-08 The book is about mathematical induction for college students It discusses the first principle and its three variations such as the second principle As a self study guide the book gives plenty of examples and explanations to help readers to grasp math concepts **College Mathematics Study Guide** Reza Nazari,2023-11-15 College Math

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Barron's Math 360: A Complete Study Guide to Pre-Algebra with Online Practice Barron's Educational Series,Caryl Lorandini,2021-09-07 Previously published under the titles Pre algebra the easy way and E Z pre algebra

[ALEKS Math Prep 2019 - 2020](#) Reza Nazari,Sam Mest,2019-07-13 The only prep book you will ever need to succeed on the ALEKS Math Test ALEKS Math Prep 2019 2020 which reflects the 2019 2020 test guidelines provides students with the confidence and math skills they need to succeed on the ALEKS Math test It is designed to address the needs of ALEKS test takers who must have a working knowledge of basic Math The step by step guide and hundreds of examples in this book help you improve your math skills and raise your ALEKS Math scores Two full length ALEKS Math tests with detailed answers and explanations can help you discover your weak areas for concentrated study Here is a valuable learning tool for the ALEKS test takers who need to improve their knowledge of Mathematics and prepare for the ALEKS Math test After completing this workbook you will have solid foundation and adequate practice that is necessary to ace the ALEKS Math test ALEKS Math Prep 2019 2020 contains many exciting

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