

# 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  $y$ ?

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

$$\text{So, } \frac{x}{y} = \frac{\%}{100}$$

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:

$$\frac{120 \text{ oz}}{1 \text{ in}^2} = \frac{144 \text{ in}^2}{1 \text{ ft}^2} = \frac{16 \text{ lb}}{16 \text{ oz}} = \frac{1 (120 \times 144)}{16} = 1,080 \text{ lb/ft}^2$$

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

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?

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

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

$$\begin{array}{r} 207 \\ 25 \overline{)5407} \\ \underline{500} \phantom{00} \\ 407 \\ \underline{400} \phantom{00} \\ 70 \\ \underline{70} \phantom{00} \\ 0 \end{array}$$

$$207 \times 25 = 5175$$

$$207 \times 25 = 5175$$

$$207 \times 25 = 5175$$



# Common Core Math Study Guide

**Test Prep Books**



## **Common Core Math Study Guide:**

Math Common Core 2nd Grade (Speedy Study Guide) Speedy Publishing, 2014-12-28 A second grade study guide for common core math will give students a better understanding of what is expected of them The common core standards have standardized what students should be learning so if your student is able to handle the math in the study guide then they will be on pace for second grade They will do great on any standardized test they see if they can easily take care of the math in this study guide

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*Common Core Math Grade 3 Workbook* Test Prep Books, 2018-10-08 Test Prep Books Common Core Math Grade 3 Grade 3 Workbook Common Core 3rd Grade Math Workbook Practice Test Questions Developed by Test Prep Books for test takers trying to achieve a passing score on the Common Core Math Grade 3 exam this comprehensive study guide includes Quick Overview Test Taking Strategies Introduction Operations and Algebraic Thinking Number and Operations in Base Ten Number and Operations Fractions Measurement and Data Geometry Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to cover 3rd Grade Common Core standards The Test Prep Books Common Core Math 3rd Grade practice test questions are each followed by detailed answer explanations If you miss a question it's important that you are able to understand the nature of your mistake and how to avoid making it again in the future The answer explanations will help you to learn from your mistakes and overcome them Understanding the latest test taking strategies is essential to preparing you for what you will expect on the exam A test taker has to not only understand the material that is being covered on the test but also must be familiar with the strategies that are necessary to properly

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**1st Grade (Speedy Study Guides)** Speedy Publishing LLC,2014-09-03 Using the Math Common Core 1st Grade Study Guide will help you prepare your child for their math standardized test The Study Guide will help you review the content that was covered during their math units and give them every opportunity to be successful The Study Guide provides practice questions to review the material in the same format used on the standardized test The Study Guide will also provide strategies that have proven successful on other standardized tests The Math Common Core 1st Grade Study Guide will give you and your child confidence when they take their first standardized test *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 student Eureka Math Grade 6 Study Guide Great Minds,2016-04-04 Eureka Math is a comprehensive content

rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key 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

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### **Math Common Core 2nd Grade (Speedy Study Guide)**

Speedy Publishing LLC, 2014-12-14. A second grade study guide for common core math will give students a better understanding of what is expected of them. The common core standards have standardized what students should be learning, so if your student is able to handle the math in the study guide, then they will be on pace for second grade. They will do great on any standardized test they see if they can easily take care of the math in this study guide.



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