

# Math

## Common Core State Standards

# 4th Grade

Place value, rounding, prime & composite numbers, factors & multiples, multiplication & division algorithms, comparing fractions & mixed numbers, geometry, measurement, and more!

### PLACE VALUE GRADE 4.1

A multi-digit number is a number with more than one digit. A digit in one place represents 10 times as much as it represents in the place to its right.

millions			thousands			ones		
hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
8	4	5,	6	0	3,	1	7	9

**EX:** 3 thousands =  $3 \times (10 \times 10 \times 10) = 3,000$   
5 hundred thousands =  $5 \times 100,000 = 500,000$

A number is written in **standard form** when digits are used to show the place values.

**EX:** three hundred twenty-six thousand, one hundred twelve = 326,112

A number is written in **expanded form** when it is shown as the sum of the values of each digit.

**EX:** 8,597,870 =  $8,000,000 + 500,000 + 90,000 + 7,000 + 800 + 70$

#### You Can Do This!

Bryan has \$35 in his savings account. If Bryan will have one hundred times as much in his account at the end of the year, how much will be in the account?

$$\$35 \times 100 = \$35 \times (10 \times 10) = \$3,500$$

At the end of the year, Bryan will have \$3,500 in his account.

### COMPARING NUMBERS GRADE 4.2

You can compare two multi-digit numbers by looking at the values of the digits in each place.

**EX:** Compare using  $<$ ,  $>$ , or  $=$ .  
one hundred five  $\square$  one hundred fourteen

105  $\square$  114

105  $\square$  114

#### Tip!

In this example, the hundreds digits are the same, so compare the tens digits: 0  $<$  1.

### ROUNDING NUMBERS GRADE 4.3

Use rules when you need to round to a certain place value.

**EX:** Round 56,489 to the nearest ten thousand.

- Find the two values the number can be rounded to based on place value: 50,000 or 60,000.
- Find the halfway point: 55,000.
- Decide if the number is less than or greater than the halfway point:  $56,489 > 55,000$ .
- If the number you are rounding is less than the halfway point, round down. If the number you are rounding is greater than the halfway point, round up. So, 56,489 rounded to the nearest ten thousand is 60,000.

#### You Can Do This!

People donated \$73,908 to a charity last year to help rebuild a coral reef. To the nearest thousand, how much money did people donate?

To round 73,908 to the nearest thousand, look at the digit in the hundreds place. It is 9. Round up.

Last year, people donated about \$74,000.

### FACTORS & MULTIPLES GRADE 4.4

Factors are parts of a number that multiply together to form a larger number.

**EX:** Find the factors of 12.

$1 \times 12 = 12$ ,  $2 \times 6 = 12$ , and  $3 \times 4 = 12$ .  
So, 1, 2, 3, 4, 6, and 12 are factors of 12.

Multiples of a number are found when the number is multiplied by a whole number.

**EX:** Find four multiples of 3.

$1 \times 3 = 3$ ,  $2 \times 3 = 6$ ,  $3 \times 3 = 9$ , and  $3 \times 4 = 12$ .  
So, 3, 6, 9, and 12 are four multiples of 3.

### PRIME & COMPOSITE NUMBERS GRADE 4.5

A **prime number** has factors of only 1 and itself.

Numbers that are not prime are **composite numbers**.

**EX:** Determine if the numbers 27, 19, and 2 are prime or composite.

Number	Factors	Prime or Composite?
27	$1 \times 27 = 27$ $3 \times 9 = 27$	composite
19	$1 \times 19 = 19$	prime
2	$1 \times 2 = 2$	prime

# Common Core Nys Math Modules 4th Grade

**Great Minds**

## Common Core Nys Math Modules 4th Grade:

**Teaching School Mathematics: Algebra** Hung-Hsi Wu,2016-08-10 This is a systematic exposition of introductory school algebra written specifically for Common Core era teachers The emphasis of the exposition is to give a mathematically correct treatment of introductory algebra For example it explains the proper use of symbols why variable is not a mathematical concept what an equation is what equation solving means how to define the slope of a line correctly why the graph of a linear equation in two variables is a straight line why every straight line is the graph of a linear equation in two variables how to use the shape of the graph of a quadratic function as a guide for the study of quadratic functions how to define a parabola correctly why the graph of a quadratic function is a parabola why all parabolas are similar etc This exposition of algebra makes full use of the geometric concepts of congruence and similarity and it justifies why the Common Core Standards on algebra are written the way they are

### **Rational Numbers to Linear Equations** Hung-Hsi

Wu,2020-06-18 This is the first of three volumes that together give an exposition of the mathematics of grades 9 12 that is simultaneously mathematically correct and grade level appropriate The volumes are consistent with CCSSM Common Core State Standards for Mathematics and aim at presenting the mathematics of K 12 as a totally transparent subject The present volume begins with fractions then rational numbers then introductory geometry that can make sense of the slope of a line then an explanation of the correct use of symbols that makes sense of variables and finally a systematic treatment of linear equations that explains why the graph of a linear equation in two variables is a straight line and why the usual solution method for simultaneous linear equations by substitutions is correct This book should be useful for current and future teachers of K 12 mathematics as well as for some high school students and for education professionals

**Navigating MathLand** Linda Kasal Fusco,2017-06-21 Navigating MathLand uses a unique lens to focus on how students prefer to learn mathematics The intent of this book is to provide a guide for parents to help them navigate the thirteen years of their children s math education K 12 The book will provide parents with the knowledge and skills they will need to proactively advocate for their children s preparation for the 21st century workforce

**Resources in Education** ,1996-04 **Math Plus, 1994** HB Staff,1994

**Eureka Math, A Story of Units: Grade 4, Module 4** Great Minds,2013-12-31 Common Core Mathematics is the most comprehensive CCSS based mathematics curriculum available today The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself They embody the instructional shifts and the standards for mathematical practice demanded by the CCSS Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative assessments are included to support data driven instruction The modules are written by teams of master teachers and mathematicians The New York Edition is nearly identical to the national version but available earlier for the 2013 2014 school year

**Index to Educational Videotapes** National Information Center for Educational Media,1974

**Resources in Education ,1997      British Education Index ,1980      Teaching in the Middle and Secondary Schools**

Joseph F. Callahan,Leonard H. Clark,Richard Dean Kellough,1998 This book is designed to provide a practical criterion referenced performance based model for general secondary or middle school methods The text s unique modular format allows students to work through each module at their own pace building confidence as each skill is mastered Using current and practical methods of teaching this latest edition incorporates constructivist based theory social interactive learning strategies and inquiry learning which involve students in problem solving situations      **The Learning Connection ,1982**

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**Subject Guide to Books in Print ,1971      Byte ,1991-04      New York Test Prep Common Core Quiz Book New York Mathematics Grade 4 Test Master Press**

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web aug 2 2020 the department of finance finance fiscal systems and consulting unit prescribes the beginning and ending pay period dates a schedule of 14 patterns that repeat within a 28 year cycle will be used table 1 below shows the 28 calendar years from 2019 to 2046 and the corresponding pattern number that will be used for that year

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web 20 25 years 241 to 300 months 15 1 3 hours 23 over 25 years 301 months and up 16 hours 24 accrual rates for eligible classifications in service requirements in terms of full time service

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web calendar showing nearly equal pay periods m w f s number of hours required for pay period m w f s circled days state pay days

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web jan 7 2022 state of california pay dates direct deposit dates and holidays payroll period payday monthly direct deposit posting day monthly state holidays month dates january 01 01 01 31 01 31 2022 02 01 2022 new year s day martin luther king jr day monday january 17 all other employees will be paid on the payday listed

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web the calculators allow employees to calculate paychecks for monthly semi monthly and bi weekly in one place which also

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web jan 26 2023 bu16 licensure continuing medical education payment 08 14 2023 23 010 2023 2024 retirement employer contributions 08 03 2023 23 009 improving affordability and access to health care bargaining units r01 r03 r04 r08 r11 r14 r15 r17 r20 r21 associated excluded and exempt employees

jan jul dgs - Sep 06 2022

web 30 apr jun dec may nov oct jan jul feb mar aug sep 2023 calendar showing nearly equal pay periods 1 8 1 8 24 31 number of hours required for pay period circled days state pay days

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web 2023 pay dates benefit month southern california out of state mail date northern california mailing date direct deposit date january january 27 january 27 february 1 february 24 february 24 march 1 march march 29 march 30 march 30 april april 27 april 28 may 1 may 26 may 26 june 1 june june 27 june 28 june

pay and direct deposit posting dates california state controller - Aug 17 2023

web for semi monthly this is only for caltrans highway labor force and department of general services office of state publishing employees these dates do not apply to employees paid intermittently throughout the month 2023 pay dates 2024 pay dates state controller s office personnel payroll services division p o box 942850

**holiday and state payroll calendars dgs** - Sep 18 2023

web state employees can access the current year s holiday schedule and state payroll calendars 2023 holiday schedule for excluded employees see bargaining unit contract for represented employees monday january 2 new year s day observed monday january 16 martin luther king jr day monday february 20 presidents day

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web labor code section 207 wages earned between the 1 st and 15 th days inclusive of any calendar month must be paid no later than the 26 th day of the month during which the labor was performed and wages earned between the 16 th and last day of the month must be paid by the 10 th day of the following month other payroll periods such as weekly

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web the calendar year is divided into 12 pay periods consisting of 21 or 22 workdays or 168 or 176 designated work hours respectively telework a fixed schedule during which an employee works away from a regular work location for a pre established number of days

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