

Math

Common Core State Standards

4th Grade

Place value, rounding, prime & composite numbers, factors & multiples, multiplication & division algorithms, comparing fractions & mixed

PLACE VALUE 4.NB.A

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 4.NB.A

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 one hundred fourteen

$$105 \text{ } 114$$

$$105 \text{ } 114$$

Tip!

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

ROUNDING NUMBERS 4.NB.A

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 4.OA.A

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 4.OA.A

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

Nys Common Core Math 4th Grade

Teachers Treasures

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

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New York City's Best Public Pre-K and Elementary Schools Clara Hemphill, Lydie Raschka, 2016 Completely revised with new profiles of more than 150 elementary schools and pre kindergarten programs For nearly 2 decades parents have looked to Clara Hemphill to help them find a good public school for their child This Fourth Edition features all new reviews of more than 150 of the city's best public elementary schools based on visits and in depth interviews by the InsideSchools staff This essential guide uncovers the inside scoop on schools the condition of the building special programs teacher quality and more includes a checklist of things to look for on a school tour and incorporates new listings of charter schools and stand alone pre kindergarten programs It also provides the hard facts on Total school enrollment Test scores for reading and math Ethnic makeup Who gets in Admissions requirements Teaching methods and styles Special education services How to apply Brisk thoughtful profiles of topnotch intriguing schools New York Daily News Hemphill has done for schools what Zagat's did for restaurants Big Apple Parent Thoughtful well researched required reading New York Magazine A bible for urban parents New York Times

Enriching Your Math Curriculum Lainie Schuster, 2010 Presents practices and routines designed to support and nourish teachers as they prepare and present a meaningful year of mathematics instruction for fifth grade mathematicians Offers activities lessons and narration that can be easily adapted or adjusted to fit the particular needs of the students or the requirements of a prescribed curriculum

Nurturing Math Curiosity With Learners in Grades K-2 Chepina Rumsey, Jody Guarino, 2024-05-21 Building students confidence and conceptual understanding early sets a solid foundation for reasoning and exploration Nurturing Math Curiosity With Learners in Grades K-2 offers educational tools and strategies teachers can use to integrate mathematical argumentation in early elementary classrooms allowing space for students natural wonder and curiosity to shine while at the same time providing opportunities for students to see mathematics content in a new light This book will help K-2 teachers Discover ways to explore early mathematical concepts Integrate classroom community building teacher tools and instructional strategies to nurture an environment of playful exploration Read real examples from teachers who have implemented argumentation in their classrooms Follow the layers of argumentation through an in depth concrete example Reflect as mathematics learners with features that activate prior knowledge Contents Introduction Part 1 Nurturing Our Classroom Community and Growing Our Teacher Toolbox Chapter 1 Creating a Vision Chapter 2 Nurturing a Classroom Community Chapter 3 Growing Our Teacher Toolbox Chapter 4 Connecting the Classroom Environment and Teacher Toolbox Through Routines Part 2 Growing the Layers of Argumentation Chapter 5 Exploring the First Layer Notice Wonder and Beyond Chapter 6 Exploring the Second Layer Conjecturing Chapter 7 Exploring the Third Layer Justifying Chapter 8 Exploring the Fourth Layer Extending Part 3 Growing More Mathematical Ideas Chapter 9 Finding Opportunities for Argumentation Chapter 10 Using Children's Literature to Engage in Argumentation Epilogue Appendix A Blank Template Appendix B Choral Counting Appendix C Number of the Day

Appendix D Number of the Day With Annotations Appendix E True or False Appendix F Mathematical Ideas Across Chapters
References and Resources Index Increasing Economic Opportunity for African Americans United States. Congress. Joint Economic Committee,2014 **On Board** ,2007 Maximizing Social Science Research Through Publicly Accessible Data Sets Perry, S. Marshall,2017-10-31 Making research in all fields of study readily available is imperative in order to circulate new information and upcoming trends This is possible through the efficient utilization of collections of information
Maximizing Social Science Research Through Publicly Accessible Data Sets is an essential reference source for the latest academic perspectives on a wide range of methodologies and large data sets with the purpose of enhancing research in the areas of human society and social relationships Featuring coverage on a broad range of topics such as student achievement teacher efficacy and instructional leadership this book is ideally designed for academicians researchers and practitioners seeking material on the availability and distribution methods of research content New York State Education ,1962
 The New York Times Index ,2008 **Whole Child, Whole School** Eileen Santiago,JoAnne Ferrara,Jane Quinn,2012-10-23 This book provides a unique examination on the ways in which educating the whole child in the community school serves to ameliorate the conditions of poverty and obstacles to learning faced by students Using a case study approach the book will highlight the successful journey of one school that transformed itself into a community school Given the rise in poverty nation wide and the unprecedented economic crisis many school districts are looking for innovative ways to garner resources for their schools The strategies outlined in this book will provide suggestions for using the resources of community partnerships as a framework for school renewal and improvement in student achievement The authors share their first hand experiences building a community school from the ground up as well as providing the national perspective on community schools Acknowledging the power of the community school this book concludes with a call to action for the dissemination of this model and its embrace of whole child education **The New York Times Magazine** ,2011
 Thinking and Acting Systemically Alan Daly,Kara Finnigan,2016-05-19 This volume argues that districts are important as a lever for change given the limited success of school by school efforts Policies that focus on skill development recognize and support performance create opportunities for collaboration build leader capacity and create networks of knowledge sharing hold great potential for improving districts but it will require a paradigm shift in the way we view our public school system and those who work within it away from blame and toward complex systems change Florida Law Review ,2017-03 **The 2001 Brown Center Report on American Education** Brookings Institution. Brown Center on Education Policy,Tom Loveless,2001 The third section analyzes achievement in urban schools Test score data from dozens of states were collected to determine how urban school districts are doing in comparison to rural and suburban districts in the same state p 4 **Science** John Michels (Journalist),2010 Peterson's ... 4 Year Colleges ,2000 **Bibliographic Guide to Education** ,2001 lists publications cataloged by Teachers College Columbia University supplemented by The Research

Libraries of The New York Public Library **The Empire State Granger** ,1983 **New York 4th Grade Math Test Prep** Teachers Treasures,2013-04-20 Our 2nd edition New York 4th Grade Math Test Prep for Common Core State Standards is an excellent resource to assess and manage student s understanding of concepts outlined in the Common Core State Standards Initiative This resource is formatted into three sections Diagnostic Practice and Assessment with multiple choice and open questions in each section The material covered includes emphasis on representing and solving problems involving using operations with whole numbers to solve problems by representing multiplicative comparisons as multiplicative equations gaining familiarity with factors and multiples using prime numbers and composite numbers generating and analyzing patterns using numbers or shapes understanding multi digit whole numbers using place value and comparison operations using place value to understand properties of operations to perform multi digit arithmetic understanding of fraction equivalence and ordering with fraction models and comparison operators building fractions from unit fractions understanding decimal notation for fractions and comparing decimal fractions solving problems involving measurement and conversion of measurements using system of units such as km m in hr min sec representing and interpreting data through shapes line plots fractions and or whole numbers understanding concepts of geometric angles and measurement of angles These standards are covered extensively by the practice problems This book contains over 600 practice problems aligned to each Common Core State Standard In addition the book contains an answer key to practice problems Paperback 242 double sided pages Publisher Teachers Treasures Inc Language English *New York School Boards* ,1996 Journal for Research in Mathematics Education ,2015

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Nys Common Core Math 4th Grade**

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<https://crm.allthingsbusiness.co.uk/data/publication/default.aspx/nmls%20uniform%20state%20test%20study%20guide.pdf>

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