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Math Common Core 5Th Grade (Quick Study: Academic)

Math Common Core 5th Grade
State Standards

Numerical operations, place value, patterns, factors, decimals, multi-digit number operations, measurement, data, geometry & more

ORDER OF OPERATIONS

Order of operations: Rules for performing operations in simplify expressions; use the mnemonic **Please excuse my dear Aunt Sally** (parentheses, exponents, multiplication and division, addition and subtraction)

- 1** Grouping symbols: Simplify inside grouping symbols first; grouping symbols include (), [], { } and $\bar{}$
- 2** Exponents: Multiply the base by itself as many times as the exponent indicates
- 3** Multiplication & division: Simplify in the order of appearance—that is, from left to right
- 4** Addition & subtraction: Simplify in the order of appearance—that is, from left to right

EX: Simplify $8 + (4 \times 2) + 32$ Simplify $(8 - 3)^2 \times (10 - 5)$
 Parentheses: $4 \times 2 = 8$ Parentheses: $8 - 3 = 5$ $5^2 \times (10 - 5) = 25 \times 5 = 125$
 Divide: $96 \div 32 = 3$ Exponents: $3^2 = 9$
 Add: $8 + 3 = 11$ Multiply: $9 \times 5 = 45$

Writing Expressions

EX: $3 \times (18,932 \times 921)$ is three times larger than $18,932 \times 921$
 The calculation "add 9 and 7, then multiply by 3" is written as $3 \times (9 + 7)$
 The sum of eight divided by two and nine times as much as seven minus three: $8 \div 2 + 9 \times 7 - 3$

Operation	Key Words
Addition +	<ul style="list-style-type: none"> added to combined together increased by more than sum total of
Subtraction -	<ul style="list-style-type: none"> decreased by difference between, difference of less than, fewer than minus, still increased/decreased by a factor of
Multiplication ×	<ul style="list-style-type: none"> product of times, multiplied by out of per percent (divide by 100) ratio of, quotient of
Division ÷	<ul style="list-style-type: none"> as, is, was, were, will be quotient yield

Number Patterns

5, 10, 15, 20, 25 (the pattern is "add 5")
 25, 22, 19, 16, 13 (the pattern is "subtract 3")
 2, 4, 8, 16, 32 (the pattern is "multiply by 2")
 100, 10, 1 (the pattern is "divide by 10")

FUNCTIONS, ORDERED PAIRS & COORDINATE PLANES

You can make number patterns from given rules

Input	Rule: Add 3	Output	Input	Rule: Add 6	Output
0	$0 + 3 = 3$	3	0	$0 + 6 = 6$	6
1	$1 + 3 = 4$	4	1	$1 + 6 = 7$	7
2	$2 + 3 = 5$	5	2	$2 + 6 = 8$	8
3	$3 + 3 = 6$	6	3	$3 + 6 = 9$	9

Function: A rule that pairs each input value with exactly one output value
Function table: A table that shows the input and corresponding output values for a function rule
Ordered pair: A pair of numbers (x, y) indicating the x-coordinate and y-coordinate of a point on a graph; also called **coordinates**
Coordinate plane: A plane formed by two perpendicular number lines in which every point is assigned an ordered pair of numbers
x-axis: The horizontal number line in a coordinate plane
y-axis: The vertical number line in a coordinate plane

EX: Graph values from the pattern by substituting the values given in the function table

$y = x + 3$
 $y = 3 + 3 = 6$
 $y = 4 + 3 = 7$
 $y = 5 + 3 = 8$
 $y = 6 + 3 = 9$

The graphed ordered pairs are: (3, 6), (4, 7), (5, 8), and (6, 9)

PLACE VALUE

In a multi-digit number (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

EX: 2 hundreds = $2(10 \times 10) = 2(100) = 200$
 4 ten thousands = $4(10 \times 1,000) = 4(10,000) = 40,000$

In a multi-digit number, a digit in one place also represents $\frac{1}{10}$ of what it represents in the place to its left

EX: 2 hundredths = $2(10 \times .01) = 2(0.01) = .02$
 4 ten-thousandths = $4(10 \times .0001) = 4(0.0001) = .0004$
 The number 543,210,123 written in expanded form is:
 $(5 \times 100,000) + (4 \times 10,000) + (3 \times 1,000) + (2 \times 100) + (1 \times 10) + (2 \times 1) + (0 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (2 \times \frac{1}{1,000})$

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Synopsis

The Common Core State Standards for mathematics are a set of expectations and skills that students need to master to succeed in college and the real world. BarCharts[™] Math Common Core series aligns with those specific standards to help guide students through their classes. Each guide in the series features real-world problems and examples, illustrations, and tables to help students retain information. The Math Common Core Standards 5th Grade QuickStudy[®] guide focuses on the critical areas of the curriculum so that students can develop fluency and understanding.

Book Information

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Customer Reviews

I'm going to buy more of these! (In fact, I already have. Some for myself, some for my kids.) This is crammed FULL of information your 5th (ish) grader will need to know for math, or can use as review. I bought it for my 5th grader (last year) to review over the summer. This year, as a 6th grader, I'm tucking it into her math binder so she'll have it at her fingertips throughout the year when she needs help with something or gets stuck. I plan on getting the full line of them - especially for math and English- as a go-to-guide. I only wish I had discovered them earlier. I have a 20-year-old who already says she wishes she had them throughout her school career. We are finding relevant ones for her for college now. She loves them and finds them very practical. She and I probably appreciate them more than the 6th grader, but that's how it is. Education is wasted on the youth. :) I'm certainly glad that I found this because I can start my kindergartner off with them from the get-go, help the middle one finish her school career, and get the oldest through college. For myself,

I've found they even make them for me! As an author, I found the Chicago Manual of Style key points on one of these which I now have tucked into my writing binder. This is 3 pages of laminated cardstock - binder size. It is pre-3 hole punched for your convenience. It is tri-folded, with the last page tucked back over the 2nd page, for easy access, and every possible inch of this tri-fold study guide is covered in information! (If you have bad eyes, you may need a magnifying glass because they really crammed this full of information and had to make some of the printing tiny. I actually have a flat one tucked in my writing binder now just for this purpose.)

Every fifth-grade student should have this in their binder. I wish it was cheaper so I could buy one for every student in my class.

For the price, this is a really good resource. I found it on a couple dollars cheaper than at the local teacher stores. It is three hole punched to use in a binder. I'm thinking about ordering a class set...

This came in handy for my 4th grader. This is a must have reference guide. I will be getting the other grade levels.

Excellent resource that will fit nicely in a binder! I wish I could afford to purchase one for each student!

This was ok not really what I was expecting it just gave a simple list of what the CCSS were for grade 5.

bought this for a friend's son, he's found it very helpful

I thought it would be more. It isn't very practical. get a workbook instead. There is a great website Dadsworksheets. My wife and I like to challenge our children.

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