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Math Fundamentals 1 Quick Reference Guide Pamphlet (Quick Study Academic)

Mr. Chan, Inc.®

WORD'S 4th GRADE OUTLINE

Quick Study
ACADEMIC

Math Fundamentals 1

Students Operations & Measurement
includes extra practice
pages & more

Boost math confidence & test scores!

What Are Math Fundamentals?

Mathematics (abbreviated, **math**) is a form of science that deals with numbers, number **theory**, **operations**, and **measurements**; all are part of mathematics.

Fundamentals are **essentials** or **basics** of something, such as a system needs to make it what it is.

SYMBOL	PLACE VALUE	ROMAN NUMERALS
≈ approximately equal = equal ≠ not equal < less than > greater than ≤ less than or equal to ≥ greater than or equal to ++ add -- subtract × multiply ÷ divide	thousands hundreds tens ones thousands hundreds tens ones thousands hundreds tens ones thousands hundreds tens ones thousands hundreds tens ones	I 1 II 2 III 3 IV 4 V 5 VI 6 VII 7 VIII 8 IX 9 X 10 XI 11 XII 12 XIII 13 XIV 14 XV 15 XVI 16 XVII 17 XVIII 18 XIX 19 XX 20 XXI 21 XXII 22 XXIII 23 XXIV 24 XXV 25 XXVI 26 XXVII 27 XXVIII 28 XXIX 29 XXX 30 XXXI 31 XXXII 32 XXXIII 33 XXXIV 34 XXXV 35 XXXVI 36 XXXVII 37 XXXVIII 38 XXXIX 39 XL 40 XLII 42 XLIII 43 XLIV 44 XLV 45 XLVI 46 XLVII 47 XLVIII 48 XLIX 49 L 50 LII 52 LIII 53 LIV 54 LV 55 LVI 56 LVII 57 LVIII 58 LIX 59 LX 60 LXII 62 LXIII 63 LXIV 64 LXV 65 LXVI 66 LXVII 67 LXVIII 68 LXIX 69 LXX 70 LXXII 72 LXXIII 73 LXXIV 74 LXXV 75 LXXVI 76 LXXVII 77 LXXVIII 78 LXXIX 79 LXXX 80 LXXXII 82 LXXXIII 83 LXXXIV 84 LXXXV 85 LXXXVI 86 LXXXVII 87 LXXXVIII 88 LXXXIX 89 XC 90 XCII 92 XCIII 93 XCIV 94 XCV 95 XCVI 96 XCVII 97 XCVIII 98 XCIX 99 C 100

OPERATIONS

Operation	Symbol	Order of Operations
+	addition	sum
-	subtraction	difference
×	multiplication	product
÷	division	quotient
		1 P Grouping symbols - solve inside grouping symbols first, grouping symbols include (), [], { }, ^{superscript}
		2 E Exponents - always set superscript (i.e., above integer), EX: 10 ² , 10 ³
		3 M M D Multiplication & Division - in the order of appearance (i.e., first comes, first served)
		4 A S A Addition & Subtraction - in the order of appearance (i.e., first comes, first served)

Decimal Operations		
Use Up Decimal?	Process	Examples
yes	Line up decimals Add normally Drop decimal straight down in sum	25.35 + 328 (change to 328.00) 25.35 + 328.00 353.35
yes	Line up decimals Subtract normally Drop decimal straight down in difference	9.887 - 3.672 (change to 9.887) 9.887 - 3.672 6.215
no	Multiply normally Count places to right of all decimals in problem Move decimal to left same number of places in solution	31.2 × 37 (change to 31.2) 31.2 × 37 2184 924 11544
no	8.702 decimal (addition) Divide normally Bring 0 off decimal from dividend into quotient	80.5 ÷ 3 (change to 80.5) 80.5 ÷ 3 26.833...
no	8.702 decimal (division) Move decimal in divisor to right to create whole number Move decimal in dividend same number of places Bring 0 off decimal from dividend into quotient	75.3 ÷ 8.25 (change to 753 ÷ 825) 75.3 ÷ 8.25 9.126...

Integer Operations		
Signs	Process	Examples
+	Same Signs Answer keeps same sign pos + pos = pos neg + neg = neg	-3 + -4 = -7
-	Different Signs Subtract the numbers, leave sign of number with greatest absolute value	-3 + 4 = 1 (4 has greatest absolute value, so answer is positive)
+	Same Signs "Add the Opposite" - change to addition; use opposite of 2nd integer; follow addition procedure	-3 - 4 (change to -3 + -4) = -7
-	Different Signs "Add the Opposite" - change to addition; use opposite of 2nd integer; follow addition procedure	-3 - (-2) (change to -3 + 2) = -1
×	Same Signs Positive product pos × pos = pos neg × neg = pos	-4 × -5 = 20
-	Different Signs Negative product pos × neg = neg neg × pos = neg	4 × -5 = -20
+	Same Signs Positive quotient pos ÷ pos = pos neg ÷ neg = pos	-28 ÷ -4 = 7
-	Different Signs Negative quotient pos ÷ neg = neg neg ÷ pos = neg	-28 ÷ 4 = -7

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Synopsis

NUMBERS, OPERATIONS & MEASUREMENTS This fantastic overview of fractions, ratios, proportions, properties and more is great for middle and high school students. It will help boost math confidence and test scores. It includes information on:

- symbols
- place value
- roman numerals
- decimal operations
- integer operations
- fraction operations
- factorization
- greatest common factors & least common multiples
- scientific notation
- ratios & proportions
- measurement
- properties
- and much more

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Customer Reviews

I am extremely pleased with this product. I love all of the bar charts quick study guides. They are great for all ages to have on hand for those sneaky formulas we constantly need reminders with. I am a home educator and work with children in various ages and I recommend getting this entire series of Fundamentals from the very beginning. You never know as a parent or teacher when you will be asked a question you just can't remember, or to have on hand for quick reference for students to have at their fingertips. The quality is great and holds up well to long term use. I keep these in a binder with our math study tools so anyone can access them and not worry about forgetting steps.

I use to be really good at math but, as I have gotten older and don't work anymore my math has gotten rusty. This chart has really helped to refresh me in some of the harder math problems that I don't use on a daily basis. It would be good for a student as well.

Super helpful for my daughter if she gets stuck on a procedure. Durable, binder ready, handy & perfect size.

Christmas hit, even for the old folks. Great reference chart. I got one for me and then purchased more for other family members. Quicker than google. Lots of great info and pretty handy overall. Love that it's laminated. I got the Weights and Measures Guide, too. We had a great "quiz fest" on Christmas Day!

Extremely useful!

Perfect for reviewing the basics.

Should be good for my soon to be high schooler.

It's not just 1 page front and back. It's actually one big sheet folded in half to make 4 pages. Reminds you in a more clear way how to do all the basic arithmetic, how to factor, reduce etc. Really helpful and so much clearer than it was when I was first trying to learn it as a kid.

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