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Math Fundamentals 3 (Quickstudy: Academic)

World's #1 Academic Outline

Quick Study ACADEMIC → **Math Fundamentals 3** Algebraic Equations & much more!

What is Algebra? 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—something that a thing or system needs to make it work.**

OPERATIONS

Operation	Solution
+	addition
-	subtraction
×	multiplication
÷	division

Order of Operations

- G**rouping symbols – solve inside grouping symbols first; grouping symbols include (), [], { }, $\bar{}$
- E**xponents – always set exponents (i.e., above integer) (i.e., 10^2 , 10^3)
- M & D** Multiply & Divide – in the order of appearance (i.e., first come, first served)
- A & S** Addition & Subtraction – in the order of appearance (i.e., first come, first served)

Decimal Operations			Integer Operations		
Use the technique	Process	Examples	Signs	Process	Examples
+	Line up decimals. Add normally. Drop decimal straight down in sum.	$23.05 + 128$ change to 23.05 $2,000$ $2,023.05$	+	Answer keeps same sign $pos + pos = pos$ $neg + neg = neg$	$-3 + -4 = -7$
-	Line up decimals. Subtract normally. Drop decimal straight down in difference.	$9.867 - 3.672$ change to 9.867 -3.672 6.195	-	Subtract the numbers. Keep sign of number with greatest absolute value.	$4 - 3 = 1$ (1 is greater absolute value, so answer is positive)
×	Multiply normally. Count places to right of all decimals in problem. Move decimal to left same number of places in solution.	31.2×27 change to 31.2 27 842.4	+	"Add the Opposites" – change to addition; use opposite of 2nd integer; follow addition procedure.	$3 - (-4)$ change to $3 + 4 = 7$
÷	If NO decimal in dividend, divide normally. Bring 0 if decimal from dividend into quotient. If decimal in dividend, move decimal in divisor to right to create whole number. Move decimal in dividend same number of places. Bring 0 if decimal from dividend into quotient.	$20.5 \div 5$ change to 20.5 5 4.1 $75.2 \div 6.25$ change to 75.2 6.25 12.048 $425 \overline{) 7530.00}$	×	Positive product $pos \times pos = pos$ $neg \times neg = pos$	$4 \times 3 = 12$
			-	Negative product $pos \times neg = neg$ $neg \times pos = neg$	$-4 \times 3 = -12$
			+	Positive quotient $pos \div pos = pos$ $neg \div neg = pos$	$24 \div 4 = 6$
			-	Negative quotient $pos \div neg = neg$ $neg \div pos = neg$	$27 \div -9 = -3$

SYMBOL	PLACE VALUE	ROMAN NUMERALS
= equal	billions	I, V, X, L, C, D, M
≠ not equal	hundreds millions	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
< less than	ten millions	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
> greater than	hundreds thousands	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
≤ less than or equal to	ten thousands	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
≥ greater than or equal to	thousands	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
+	hundreds	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
-	tens	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
×	ones	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
÷	fractions	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
	decimals	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
	percent	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
	thousands	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
	hundreds	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
	ten thousands	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
	hundreds thousands	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI
	billions	CC, CCXX, CCXXX, CCXL, CCCL, CCCLXX, CCCLXXX, CCCLXXXI

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Synopsis

This fantastic overview of points, lines, angles, planes, solids and space figures is great for middle and high school students. It will help boost math confidence and test scores.

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Customer Reviews

I pulled this for a quick desk reference and now my son has decided he likes it. I find these guides very clear and for someone who has done a lot of math in the past it is a perfect reminder to get the brain to recall long lost knowledge.

I have a 14yr old that I home school and he is having trouble with Math. These charts are very detailed and self explanatory and I would encourage anyone struggling in Math to try these out. They really do help. The cost is very low and they deliver very very quickly!

BarCharts always has great products. Very useful for a quick reference guide when studying or preparing for tests. Great for various age/grade levels. Good to have on hand for quick reference.

Easy to understand and tells me everything that I need to teach my daughter for homeschooling, I would recommend this products highly!

The kids love this. Great for review of the basics of math courses and for working contracts and

program management.

Hey, I love math. This is a good study to keep the mind working.

Ordered for grand kids, their parents couldn't put it down. Excellent gift.

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