

## The book was found

# Math Fundamentals 3 (Quickstudy: Academic)

BeCharts, Inc.\*

**Quick Study**

**ACADEMIC**

WORLD'S #1 AT HOME COURSE

www.quickstudy.com

**Algebraic Equations**

**& much more!**

# Math Fundamentals 3

**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 what it is.

## OPERATIONS

**Operation Solution**

+	addition	sum
-	subtraction	difference
×	multiplication	product
÷	division	quotient

**Order of Operations**

**1** **Grouping symbols** — write inside grouping symbols first; grouping symbols include ( ), [ ], { }, <math>\overline{\phantom{x}}</math>

**2** **Exponents** — always set exponents (i.e., above letters),  $5^2$ ,  $10^3$ ,  $10^4$

**3** **Multiplication & Division** — in the order of appearance (i.e., first come, first served)

**4** **Addition & Subtraction** — in the order of appearance (i.e., first come, first served)

**Decimal Operations**

Like or Denominator?	Process	Examples
+	yes List up decimals. Add normally. Drop decimal straight down in sum.	$15.08 + 3.28$ (change to 3.28) = 18.36 $5.458 + 2.376$
-	yes List up decimals. Subtract normally. Drop decimal straight down in difference.	$8.805 - 5.472$ (change to 5.472) = 3.333 $1.3472 - 8.373$
×	no Multiply normally. Count places to right of all decimals in product. Place decimal to left using number of places in dividend.	$34.2 \times 67$ (change to 34.2) = 2291.4 $5.47 \times 2.56$
÷	no If no decimal in dividend, divide normally. Bring "0" decimal from dividend into quotient. If decimal in dividend, move decimal in dividend to right to create whole number. When decimal is divided, same number of places from dividend into quotient.	$20.5 \div 5$ (change to 4.1) = 4.1 $973.5$ $77.3 \div 8.25$ (change to 8.25) = 9.37 $79.3$ (change to 79.3) = 12.144 $4257.930$ (change to 4257.930)

**Integer Operations**

Signs	Process	Examples
+	Same Signs Answer equals same sign; $pos + pos = pos$ , $neg + neg = neg$ ; $+$ or $-$	$3 + 4 = 7$
-	Different Signs Subtract the numbers; keep sign of number with greatest absolute value.	$8 + 5 = 13$ (8 has greater absolute value, so answer is positive)
+	Same Signs "Add the Opposites" — change to addition and opposite of first integer; follow addition procedure.	$5 - 1$ (1) change to $5 + 1$
-	Different Signs "Add the Opposites" — change to addition and opposite of first integer; follow addition procedure.	$5 - 1$ (1) change to $5 + 1$
×	Same Signs Positive product: $pos \times pos = pos$ , $neg \times neg = pos$	$4 \times 3 = 12$
-	Different Signs Negative product: $pos \times neg = neg$ , $neg \times pos = neg$	$4 \times 3 = 12$
+	Same Signs Positive quotient: $pos \div pos = pos$ , $neg \div neg = pos$	$24 \div 8 = 3$
-	Different Signs Negative quotient: $pos \div neg = neg$ , $neg \div pos = neg$	$27 \div 9 = 3$

**SYMBOL**

- equal
- ≠ not equal
- < less than
- > greater than
- ≤ less than or equal to
- ≥ greater than or equal to
- +
- 
- ×
- ÷
- divide

**PLACE VALUE**

Billions	Hundred millions	Ten millions	Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones	Decimal	Tenths	Hundredths	Thousandths	Ten thousandths	Hundred thousandths	Millionths
1	2	3	4	5	6	7	8	9	0	.	1	2	3	4	5	6

**ROMAN NUMERALS**

M	1000	D	500	C	100
L	50	X	10	V	5
IV	4	II	2	I	1
XL	40	XX	20	XI	11
LX	60	LXX	70	LXXX	80
CL	100	CXX	120	CXXX	130
CD	400	CDL	450	CDLX	460
DC	600	DCX	610	DCXX	620
DCC	700	DCCX	710	DCCXX	720
CM	900	CMX	910	CMXX	920
CM	900	CM	900	CM	900

Copyright © 2004



## 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.

## Book Information

Series: Quickstudy: Academic

Pamphlet: 4 pages

Publisher: QuickStudy; Lam Crds edition (May 22, 2008)

Language: English

ISBN-10: 1423205650

ISBN-13: 978-1423205654

Product Dimensions: 8.5 x 11 x 0.1 inches

Shipping Weight: 0.8 ounces (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 18 customer reviews

Best Sellers Rank: #35,157 in Books (See Top 100 in Books) #9 in [Books > Science & Math >](#)

[Mathematics > Reference](#) #32 in [Books > Science & Math > Mathematics > Geometry &](#)

[Topology](#) #59 in [Books > Science & Math > Mathematics > Study & Teaching](#)

## Customer Reviews

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.

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.

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

Extremely useful!

Great reference for elementary maths.

All good thank you

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!

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

[Download to continue reading...](#)

Math Fundamentals 2 (Quickstudy: Academic) Math Fundamentals 3 (Quickstudy: Academic)  
Medical Math (Quickstudy: Academic) Illinois TAP Math: Test of Academic Proficiency - Math  
Preparation Math Fundamentals 1 Quick Reference Guide pamphlet (Quick Study Academic) Trigger  
Points (Quickstudy: Academic) Acupressure (Quickstudy: Academic) Reflexology (Quickstudy:  
Academic) Latin Grammar (Quickstudy: Academic) Latin Vocabulary (Quickstudy: Academic)  
Medical Coding (Quickstudy: Academic) Medical Terminology:The Basics (Quickstudy: Academic)  
Heart (Quickstudy: Academic) Physical Therapy (Quickstudy: Academic) Respiratory System  
(Quickstudy: Academic) Spanish Verbs (Quickstudy: Academic) Electronics 1 Part 1 (Quickstudy:  
Academic) Electronics 1 Part 2 (Quickstudy: Academic) Statistics Laminate Reference Chart:  
Parameters, Variables, Intervals, Proportions (Quickstudy: Academic ) Statistics Equations &  
Answers (Quickstudy: Academic)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)