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Math Fundamentals 3 (Quickstudy: Academic)

BarCharts, Inc.®

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 what it is.

OPERATIONS

Operation Solution

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

Order of Operations

- 1** **G** **Grouping symbols** — solve inside grouping symbols first; grouping symbols include (), [], { }, $\overline{}$
- 2** **E** **Exponents** — always set superscript (i.e., above integer) (i.e., 10^5 , 10^{-2})
- 3** **M&D** **Multiplication & Division** — in the order of appearance (i.e., first come, first served)
- 4** **A&S** **Addition & Subtraction** — in the order of appearance (i.e., first come, first served)

Decimal Operations

Line Up Decimals	Process	Examples
+	yes Line up decimals. Add normally. Drop decimal straight down in sum.	$\begin{array}{r} 23.05 + 328 \text{ change} \\ \\ 70 \\ 23.05 \\ \hline 23.05 \end{array}$
-	yes Line up decimals. Subtract normally. Drop decimal straight down in difference.	$\begin{array}{r} 9.807 - 3.412 \\ \\ \text{change to} \\ 9.807 \\ - 3.412 \\ \hline 6.395 \end{array}$
x	no Multiply normally. Count places to right of all decimals in problem. Move decimal to left same number of places in solution.	$\begin{array}{r} 31.2 \times 67 \text{ change} \\ \\ 70 \\ 31.2 \\ \hline 2.084 \end{array}$
÷	yes Divide normally. Bring 0 if decimal from dividend into quotient.	$\begin{array}{r} 20.5 \div 4 \text{ change to} \\ \\ 4.1 \\ \hline 5.125 \end{array}$
÷	no If decimal in divisor, 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.	$\begin{array}{r} 70.3 \div 4.25 \text{ change} \\ \\ 70 \\ 6.02 \overline{) 70.3} \text{ change} \\ \\ 70 \\ \hline 12.048 \\ 6.02 \overline{) 70.3000} \end{array}$

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; keep sign of number with greatest absolute value	$8 + 3 = 5$ -8 has greatest absolute value, so answer is negative
+	Same Signs "Add the Opposites" — change to addition; use opposite of 2nd integer; follow addition process	$5 - 1$ -1 change to $+1$ $5 + 1 = 6$
-	Different Signs "Add the Opposites" — change to addition; use opposite of 2nd integer; follow addition process	$5 - 1$ -1 change to $+1$ $5 + 1 = 6$
x	Same Signs Positive product: pos x pos = pos; neg x neg = pos	$-2 \times -3 = 6$
-	Different Signs Negative product: pos x neg = neg; neg x pos = neg	$-6 \times 3 = -18$
÷	Same Signs Positive quotient: pos ÷ pos = pos; neg ÷ neg = pos	$-24 \div -4 = 6$
-	Different Signs Negative quotient: pos ÷ neg = neg; neg ÷ pos = neg	$27 \div -9 = -3$

SYMBOL

- = equal
- ≠ not equal
- < less than
- > greater than
- ≤ less than or equal to
- ≥ greater than or equal to
- ± add
- subtract
- x multiply
- ÷ divide

PLACE VALUE

billions	hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	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

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI	XXII	XXIII	XXIV	XXV	XXVI	XXVII	XXVIII	XXIX	XXX	XXXI	XXXII	XXXIII	XXXIV	XXXV	XXXVI	XXXVII	XXXVIII	XXXIX	XL	XLI	XLII	XLIII	XLIV	XLV	XLVI	XLVII	XLVIII	XLIX	L	LXI	LXII	LXIII	LXIV	LXV	LXVI	LXVII	LXVIII	LXIX	LXX	LXXI	LXXII	LXXIII	LXXIV	LXXV	LXXVI	LXXVII	LXXVIII	LXXIX	LXXX	LXXXI	LXXXII	LXXXIII	LXXXIV	LXXXV	LXXXVI	LXXXVII	LXXXVIII	LXXXIX	XC	XCI	XCII	XCIII	XCIV	XCV	XCVI	XCVII	XCVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	CC	CCI	CCII	CCIII	CCIV	CCV	CCVI	CCVII	CCVIII	CCIX	CCC	CCCI	CCCII	CCCIII	CCCIV	CCCV	CCCVI	CCCVII	CCCVIII	CCCC	CCCCI	CCCCII	CCCCIII	CCCCIV	CCCCV	CCCCVI	CCCCVII	CCCCVIII	CCCCIX	CD	CDI	CDII	CDIII	CDIV	CDV	CDVI	CDVII	CDVIII	CDIX	CDC	CDCI	CDCCII	CDCCIII	CDCCIV	CDCCV	CDCCVI	CDCCVII	CDCCVIII	CDCCIX	CDCCC	CDCCC1	CDCCCII	CDCCCIII	CDCCCIV	CDCCC5	CDCCC6	CDCCC7	CDCCC8	CDCCC9	CDCCCC	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3	CDCCCC4	CDCCCC5	CDCCCC6	CDCCCC7	CDCCCC8	CDCCCC9	CDCCCC0	CDCCCC1	CDCCCC2	CDCCCC3
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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.

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 [See all reviews](#) (14 customer reviews)

Best Sellers Rank: #98,924 in Books (See Top 100 in Books) #28 in [Books > Science & Math > Mathematics > Reference](#) #102 in [Books > Science & Math > Mathematics > Geometry & Topology](#) #156 in [Books > Science & Math > Mathematics > Study & Teaching](#)

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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