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# Math Fundamentals 3 (Quickstudy: Academic)

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ACADEMIC

WORLD'S #1 ACADEMIC OUTLINE

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**Algebraic Equations**  
and 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 G** Grouping symbols – solve inside grouping symbols first; grouping symbols include {} [] () / %

**2 E** Exponents – always get exponents i.e., above integer;  $5^3$ ,  $10^2$ ,  $10^3$

**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	$23.05 + 328 \text{ change to } 328.00$ $\begin{array}{r} 23.05 \\ + 328.00 \\ \hline 351.05 \end{array}$
-	yes	Line up decimals Subtract normally Drop decimal straight down in difference	$9.807 - 3.472 \text{ change to } 9.807$ $\begin{array}{r} 9.807 \\ - 3.472 \\ \hline 6.335 \end{array}$
×	no	Multiply normally Count places to right of all decimals in product Move decimal to left same number of places in solution	$31.2 \times 67 \text{ change to } 31.2$ $\begin{array}{r} 31.2 \\ \times 67 \\ \hline 2084 \end{array}$
÷	no	2-3 DC decimal dividend Divide normally Bring "up" decimal from dividend into quotient	$20.5 \div 5 \text{ change to } 20.5$ $\begin{array}{r} 4.1 \\ 5 \overline{) 20.5} \end{array}$
÷	no	If DC decimal in dividend Move decimal in dividend to right to create whole number Move decimal in dividend same number of places Bring "up" decimal from dividend into quotient	$75.3 \div 4.25 \text{ change to } 753 \div 425$ $\begin{array}{r} 1.77129 \\ 425 \overline{) 753.000} \end{array}$

**Integer Operations**

	Signs	Process	Examples
+	Same Signs	Answer keeps same sign plus + plus = plus neg + neg = neg	$-3 + -4 = -7$
+	Different Signs	Subtract the numbers keep sign of number with greatest absolute value	$4 + 3 = 7$ (7 has greatest absolute value, so answer is positive)
-	Same Signs	"Add the Opposite" – change to addition, use opposite of 2nd integer, follow addition process	$-3 + (-4) \text{ change to } -3 + -4 = -7$
-	Different Signs	"Subtract the Opposite" – change to addition, use opposite of 2nd integer, follow addition process	$-3 - (-4) \text{ change to } -3 + 4 = 1$
×	Same Signs	Positive product: plus + plus = plus neg + neg = neg	$-3 \times -4 = 12$
×	Different Signs	Negative product: plus + plus = neg neg + plus = neg	$-4 \times 3 = -12$
÷	Same Signs	Positive quotient: plus + plus = plus neg + neg = neg	$24 \div 4 = 6$
÷	Different Signs	Negative quotient: plus + neg = neg neg + neg = neg	$27 \div -9 = -3$

**SYMBOL**

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

**PLACE VALUE**

billions	hundreds millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	decimal	hundredths	thousandths	ten thousandths	hundred thousandths	millionths
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**ROMAN NUMERALS**

I	1	II	2	III	3	IV	4	V	5
VI	6	VII	7	VIII	8	IX	9	X	10
L	50	CL	100	DC	600	CC	200	D	500
M	1,000	XL	40	XLV	45	XLIX	49	LX	60
LXV	65	LXX	70	LXXV	75	LXXX	80	LXXXV	85
XC	90	XCV	95	C	100	MC	1,000		

**1 2 3 4 5 6 7 8 9 0 - 1 2 3 4 5 6**

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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

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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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