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Math Fundamentals 3 (Quickstudy: Academic)

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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		Order of Operations
$+$ addition	sum	1 G Grouping symbols — solve inside grouping symbols first. Ex: grouping symbols include (), [], { }, $\overline{}$
$-$ subtraction	difference	2 E Exponents — always set superscript (i.e., above integer). Ex: 10^2 , 10^{-1}
$\times$ multiplication	product	3 M&D Multiply & Divide — in the order of appearance (i.e., first come, first served)
$\div$ division	quotient	4 A&S Addition & Subtraction — in the order of appearance (i.e., first come, first served)
Decimal Operations		Integer Operations
Use the Technique!	Process	Examples
$+$	yes Line up decimals. Add normally. Drop decimal straight down in sum.	Same Signs Answer keeps same sign. pos + pos = pos neg + neg = neg $-3 + -4 = -7$
$-$	yes Line up decimals. Subtract normally. Drop decimal straight down in difference.	Different Signs Subtract the numbers. Keep sign of number with greater absolute value, so answer is negative. $-4 + 3 = -1$ (4 has greater absolute value, so answer is negative)
$\times$	no Multiply normally. Count places to right of all decimals in problem. Move decimal to left same number of places in solution.	Same Signs "Add the Absolute" — change to add them; use positive of 2nd integer; follow addition process. -3×-4 change to $3 \times 4 = 12$
$\div$	no If NO decimal (divisor): Divide normally. Bring 0 if decimal from dividend into quotient. 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.	Different Signs "Add the Absolute" — change to add them; use opposite of 2nd integer; follow addition process. -3×4 change to $3 \times 4 = 12$
		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 $12 \div 4 = 3$
		Different Signs Negative quotient: pos $\div$ neg = neg neg $\div$ pos = neg $12 \div -4 = -3$
SYMBOL	PLACE VALUE	ROMAN NUMERALS
$=$ equal	billions	I 1
$\neq$ not equal	hundred millions	II 2
$<$ less than	ten millions	III 3
$>$ greater than	hundred thousands	IV 4
$\leq$ less than or equal to	ten thousands	V 5
$\geq$ greater than or equal to	thousands	VI 6
$+$ add	hundreds	VII 7
$-$ subtract	tens	VIII 8
$\times$ multiply	ones	IX 9
$\div$ divide	tenths	X 10
	hundredths	XI 11
	thousandths	XII 12
	ten thousandths	XIII 13
	hundred thousandths	XIV 14
	millionths	XV 15
	ten millionths	XVI 16
	hundred millionths	XVII 17
	billionths	XVIII 18
	ten billionths	XIX 19
	hundred billionths	XX 20
	trillionths	XXI 21
	ten trillionths	XXII 22
	hundred trillionths	XXIII 23
	quadrillionths	XXIV 24
	quintillionths	XXV 25
	sextillionths	XXVI 26
	septillionths	XXVII 27
	octillionths	XXVIII 28
	nonillionths	XXIX 29
	decillionths	XXX 30
	undecillionths	XXXI 31
	duodecillionths	XXXII 32
	tredecillionths	XXXIII 33
	quadrdecillionths	XXXIV 34
	quintdecillionths	XXXV 35
	sexdecillionths	XXXVI 36
	septendecillionths	XXXVII 37
	octodecillionths	XXXVIII 38
	nondecillionths	XXXIX 39
	vigintillionths	XL 40
	trigintillionths	XLI 41
	quadrigintillionths	XLII 42
	quingentillionths	XLIII 43
	sexcentillionths	XLIV 44
	septencentillionths	XLV 45
	octocentillionths	XLVI 46
	noncentillionths	XLVII 47
	millions	XLVIII 48
	hundreds	XLIX 49
	tens	L 50
	ones	LXI 51
	tenths	LXII 52
	hundredths	LXIII 53
	thousandths	LXIV 54
	ten thousandths	LXV 55
	hundred thousandths	LXVI 56
	millionths	LXVII 57
	ten millionths	LXVIII 58
	hundred millionths	LXIX 59
	billionths	LXX 60
	ten billionths	LXXI 61
	hundred billionths	LXXII 62
	trillionths	LXXIII 63
	ten trillionths	LXXIV 64
	hundred trillionths	LXXV 65
	quadrillionths	LXXVI 66
	quintillionths	LXXVII 67
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	octillionths	LXXX 70
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	undecillionths	LXXXIII 73
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	tredecillionths	LXXXV 75
	quadrdecillionths	LXXXVI 76
	quintdecillionths	LXXXVII 77
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	octodecillionths	XXXX 80
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	trigintillionths	XXXXIII 83
	quadrigintillionths	XXXXIV 84
	quingentillionths	XXXXV 85
	sexcentillionths	XXXXVI 86
	septencentillionths	XXXXVII 87
	octocentillionths	XXXXVIII 88
	noncentillionths	XXXXIX 89
	millions	XXXXX 90
	hundreds	XXXXXI 91
	tens	XXXXXII 92
	ones	XXXXXIII 93
	tenths	XXXXXIV 94
	hundredths	XXXXXV 95
	thousandths	XXXXXVI 96
	ten thousandths	XXXXXVII 97
	hundred thousandths	XXXXXVIII 98
	millionths	XXXXXIX 99
	ten millionths	XXXXXX 100
	hundred millionths	XXXXXXI 101
	billionths	XXXXXXII 102
	ten billionths	XXXXXXIII 103
	hundred billionths	XXXXXXIV 104
	trillionths	XXXXXXV 105
	ten trillionths	XXXXXXVI 106
	hundred trillionths	XXXXXXVII 107
	quadrillionths	XXXXXXVIII 108
	quintillionths	XXXXXXIX 109
	sextillionths	XXXXXXX 110
	septillionths	XXXXXXXI 111
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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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