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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
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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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