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Math Fundamentals 1 Quick Reference Guide Pamphlet (Quick Study Academic)

Math Fundamentals 1 Number, Operations & Measurement

Boost math confidence & test scores!

What are Math Fundamentals? Mathematics (abbreviated, math) is a form of science that deals with numbers—number theory, operations and measurement; all are part of mathematics. Fundamentals are essentials or basics—something that a thing or system needs to make it what it is.

SYMBOL	PLACE VALUE	ROMAN NUMERALS																																								
<ul style="list-style-type: none"> ≈ approximately equal = equal ≠ not equal > greater than ≥ less than or equal to ≥ greater than or equal to + - subtract × multiply ÷ divide 	<p>billions hundred millions tens millions hundred thousands thousands hundreds tens ones tenths hundredths thousandths ten thousandths millionths</p> <p>• 9 8 7 6 5 4 3 2 1 0 • 1 2 3 4 5 6 •</p>	<table border="1"> <tr><td>I</td><td>1</td><td>CC</td><td>200</td></tr> <tr><td>II</td><td>2</td><td>CCC</td><td>300</td></tr> <tr><td>III</td><td>3</td><td>CD</td><td>400</td></tr> <tr><td>IV</td><td>4</td><td>D</td><td>500</td></tr> <tr><td>V</td><td>5</td><td>DC</td><td>600</td></tr> <tr><td>VI</td><td>6</td><td>DCC</td><td>700</td></tr> <tr><td>VII</td><td>7</td><td>DCCC</td><td>800</td></tr> <tr><td>VIII</td><td>8</td><td>M</td><td>1,000</td></tr> <tr><td>IX</td><td>9</td><td></td><td></td></tr> <tr><td>X</td><td>10</td><td></td><td></td></tr> </table>	I	1	CC	200	II	2	CCC	300	III	3	CD	400	IV	4	D	500	V	5	DC	600	VI	6	DCC	700	VII	7	DCCC	800	VIII	8	M	1,000	IX	9			X	10		
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VII	7	DCCC	800																																							
VIII	8	M	1,000																																							
IX	9																																									
X	10																																									

OPERATIONS

Operation	Solution
+	sum
-	difference
×	product
÷	quotient

Order of Operations

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

Decimal Operations			Integer Operations		
Use by	Process	Examples	Signs	Process	Examples
+	Line up decimals. Add normally. Drop decimal straight down in sum.	$25.05 + 4.08$ change to $\begin{array}{r} 25.05 \\ + 4.08 \\ \hline 29.13 \end{array}$	+	Answer keeps same sign: pos + pos = pos; neg + neg = neg	$5 + 4 = 9$
-	Line up decimals. Subtract normally. Drop decimal straight down in difference.	$9.887 - 3.672$ change to $\begin{array}{r} 9.887 \\ - 3.672 \\ \hline 6.215 \end{array}$	-	Subtract the numbers, keep sign of number with greatest absolute value.	$5 - 2 = 3$ (3 has greatest absolute value, so answer is positive)
×	Multiply normally. Count places to right of all decimals in product. Move decimal to left same number of places in solution.	31.2×37 change to $\begin{array}{r} 31.2 \\ \times 37 \\ \hline 2184 \end{array}$	+	"Add the Opposite" - change to addition; use opposite of 2nd integer; follow addition process.	$5 - 1.03$ change to: $5 + 1.03$
÷	If NO decimal in dividend, divide normally. Bring 0's decimal from dividend into quotient. If decimal in dividend, move decimal in divisor to right to create whole number. Move decimal in dividend same number of places. Bring 0's decimal from dividend into quotient.	$30.5 \div 5$ change to $\begin{array}{r} 30.5 \\ \div 5 \\ \hline 6.1 \end{array}$ $75.2 \div 6.25$ change to $\begin{array}{r} 75.20 \\ \div 6.25 \\ \hline 12.04 \end{array}$ $405 \overline{) 756.000}$	-	Positive product: pos × pos = pos; neg × neg = pos	$4 \times 5 = 20$
			+	Negative product: pos × neg = neg; neg × pos = neg	$4 \times 6 = 24$
			+	Positive quotient: pos ÷ pos = pos; neg ÷ neg = pos	$-8 \div -4 = 2$
			-	Negative quotient: pos ÷ neg = neg; neg ÷ pos = neg	$27 \div 9 = 3$

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Synopsis

NUMBERS, OPERATIONS & MEASUREMENTS This fantastic overview of fractions, ratios, proportions, properties and more is great for middle and high school students. It will help boost math confidence and test scores. It includes information on: symbols, place value, roman numerals, decimal operations, integer operations, fraction operations, factorization, greatest common factors & least common multiples, scientific notation, ratios & proportions, measurement, properties and much more.

Book Information

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Customer Reviews

I am extremely pleased with this product. I love all of the bar charts quick study guides. They are great for all ages to have on hand for those sneaky formulas we constantly need reminders with. I am a home educator and work with children in various ages and I recommend getting this entire series of Fundamentals from the very beginning. You never know as a parent or teacher when you will be asked a question you just can't remember, or to have on hand for quick reference for students to have at their fingertips. The quality is great and holds up well to long term use. I keep these in a binder with our math study tools so anyone can access them and not worry about forgetting steps.

I use to be really good at math but, as I have gotten older and don't work anymore my math has gotten rusty. This chart has really helped to refresh me in some of the harder math problems that I don't use on a daily basis. It would be good for a student as well.

Super helpful for my daughter if she gets stuck on a procedure. Durable, binder ready, handy & perfect size.

Christmas hit, even for the old folks. Great reference chart. I got one for me and then purchased more for other family members. Quicker than google. Lots of great info and pretty handy overall. Love that it's laminated. I got the Weights and Measures Guide, too. We had a great "quiz fest" on Christmas Day!

Extremely useful!

Perfect for reviewing the basics.

Should be good for my soon to be high schooler.

It's not just 1 page front and back. It's actually one big sheet folded in half to make 4 pages.

Reminds you in a more clear way how to do all the basic arithmetic, how to factor, reduce etc.

Really helpful and so much clearer than it was when I was first trying to learn it as a kid.

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