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

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WORLD'S #1 ACADEMIC OUTLINE

Quick Study
ACADEMIC

Math Fundamentals 1

Funnel, Spinning
Measurement
Coordinate Plane
Graphing

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 **measurements**; all are part of mathematics.

Fundamentals are **essentials** or **basics**—something that is thing or system needs to make it what it is.

SYMBOL

- ≈ approximately equal
- = equal
- ≠ not equal
- < less than
- > greater than
- ≤ less than or equal to
- ≥ greater than or equal to
- +
-
- ×
- ÷
- ÷

PLACE VALUE

billions	hundreds of millions	ten millions	hundreds of thousands	ten thousands	thousands	hundreds	tens	ones	decimal	tenths	hundredths	thousandths	ten thousandths	hundred thousandths	millionths
100,000,000	10,000,000	1,000,000	100,000	10,000	1,000	100	10	1	.	0.1	0.01	0.001	0.0001	0.00001	0.000001

ROMAN NUMERALS

I	II	III	IV	V	VI	VII	VIII	IX	X	L	XL	LX	LXX	LXXX	XC	C	CC	CCC	CD	DC	DCC	DCCC	M		
1	2	3	4	5	6	7	8	9	10	50	40	60	70	80	90	100	200	300	400	500	600	700	800	900	1,000

OPERATIONS

Operation	Solution
+	sum
-	difference
×	product
÷	quotient

Order of Operations

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

Decimal Operations

Use the technique!	Process	Examples
+	Line up decimals. Add normally. Drop decimal straight down in sum.	$25.05 + 3.08$ change to: 25.05 $+ 3.08$ 28.13
-	Line up decimals. Subtract normally. Drop decimal straight down in difference.	$9.887 - 3.672$ change to: 9.887 $- 3.672$ 6.215
×	Multiply normally. Count places to right of all decimals in problem. Move decimal to left same number of places in solution.	31.2×37 change to: 31.2 $\times 37$ 1154
÷	If NO decimal (division), divide normally. Bring up decimal from dividend into quotient. If decimal is shown , move decimal in divisor to right to create whole number. Move decimal in dividend same number of places. Bring up decimal from dividend into quotient.	$30.5 \div 5$ change to: 6.1 $5 \overline{)30.5}$ 6.1 $75.2 \div 6.25$ change to: $6.25 \overline{)75.2}$ 12.048 $625 \overline{)750.000}$

Integer Operations

Signs	Process	Examples
+	Same Signs: Answer keeps same sign; pos + pos = pos; neg + neg = neg.	$-5 + -4 = -9$
-	Different Signs: Subtract the numbers, keep sign of number with greatest absolute value; so answer is negative!	$-5 + 2 = -3$ (3 has greater absolute value, so answer is negative)
+	Same Signs: "Add the Opposite" - change to addition; use opposite of 2nd integer; follow addition process.	$-5 - 3 = -8$ change to: $-5 + 3 = -2$
-	Different Signs: "Add the Opposite" - change to addition; use opposite of 2nd integer; follow addition process.	$3 - -2$ change to: $3 + 2 = 5$
×	Same Signs: Positive product: pos × pos = pos; neg × neg = pos.	$4 \times 5 = 20$
-	Different Signs: Negative product: pos × neg = neg; neg × pos = neg.	$4 \times -5 = -20$
÷	Same Signs: Positive quotient: pos ÷ pos = pos; neg ÷ neg = pos.	$-8 \div -4 = 2$
-	Different Signs: Negative quotient: pos ÷ neg = neg; neg ÷ pos = neg.	$8 \div 4 = 2$

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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

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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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