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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

Student Operations & Measurement symbols, formulas, and graphs appear in red.

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 true 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
- +
- − subtract
- × multiply
- ÷ divide

PLACE VALUE

billions	hundreds of millions	ten millions	millions	hundreds of thousands	ten thousands	thousands	hundreds	tens	ones	decimals	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	1	XX	20	CC	200
II	2	XXI	21	CCL	250
III	3	XXII	22	CCLX	260
IV	4	XXIII	23	CCLXX	270
V	5	XXIV	24	CCLXXX	280
VI	6	XXV	25	CCLXXXI	290
VII	7	XXVI	26	CCLXXXII	300
VIII	8	XXVII	27	CCLXXXIII	310
IX	9	XXVIII	28	CCLXXXIV	320
X	10	XXIX	29	CCLXXXV	330
		XXX	30	CCLXXXVI	340
		XXXI	31	CCLXXXVII	350
		XXXII	32	CCLXXXVIII	360
		XXXIII	33	CCLXXXIX	370
		XXXIV	34	CCLXXX	380
		XXXV	35	CCLXXXI	390
		XXXVI	36	CCLXXXII	400
		XXXVII	37	CCLXXXIII	410
		XXXVIII	38	CCLXXXIV	420
		XXXIX	39	CCLXXXV	430
		XL	40	CCLXXXVI	440
		XLI	41	CCLXXXVII	450
		XLII	42	CCLXXXVIII	460
		XLIII	43	CCLXXXIX	470
		XLIV	44	CCLXXX	480
		XLV	45	CCLXXXI	490
		XLVI	46	CCLXXXII	500
		XLVII	47	CCLXXXIII	510
		XLVIII	48	CCLXXXIV	520
		XLIX	49	CCLXXXV	530
		L	50	CCLXXXVI	540
		LXI	51	CCLXXXVII	550
		LXII	52	CCLXXXVIII	560
		LXIII	53	CCLXXXIX	570
		LXIV	54	CCLXXX	580
		LXV	55	CCLXXXI	590
		LXVI	56	CCLXXXII	600
		LXVII	57	CCLXXXIII	610
		LXVIII	58	CCLXXXIV	620
		LXIX	59	CCLXXXV	630
		LXX	60	CCLXXXVI	640
		LXXI	61	CCLXXXVII	650
		LXXII	62	CCLXXXVIII	660
		LXXIII	63	CCLXXXIX	670
		LXXIV	64	CCLXXX	680
		LXXV	65	CCLXXXI	690
		LXXVI	66	CCLXXXII	700
		LXXVII	67	CCLXXXIII	710
		LXXVIII	68	CCLXXXIV	720
		LXXIX	69	CCLXXXV	730
		LXXX	70	CCLXXXVI	740
		LXXXI	71	CCLXXXVII	750
		LXXXII	72	CCLXXXVIII	760
		LXXXIII	73	CCLXXXIX	770
		LXXXIV	74	CCLXXX	780
		LXXXV	75	CCLXXXI	790
		LXXXVI	76	CCLXXXII	800
		LXXXVII	77	CCLXXXIII	810
		LXXXVIII	78	CCLXXXIV	820
		LXXXIX	79	CCLXXXV	830
		LXXXX	80	CCLXXXVI	840
		LXXXXI	81	CCLXXXVII	850
		LXXXXII	82	CCLXXXVIII	860
		LXXXXIII	83	CCLXXXIX	870
		LXXXXIV	84	CCLXXX	880
		LXXXXV	85	CCLXXXI	890
		LXXXXVI	86	CCLXXXII	900
		LXXXXVII	87	CCLXXXIII	910
		LXXXXVIII	88	CCLXXXIV	920
		LXXXXIX	89	CCLXXXV	930
		LXXXXX	90	CCLXXXVI	940
		LXXXXXI	91	CCLXXXVII	950
		LXXXXXII	92	CCLXXXVIII	960
		LXXXXXIII	93	CCLXXXIX	970
		LXXXXXIV	94	CCLXXX	980
		LXXXXXV	95	CCLXXXI	990
		LXXXXXVI	96	CCLXXXII	1,000

OPERATIONS

Operation	Solution
+	addition
−	subtraction
×	multiplication
÷	division

Order of Operations	
1	Grouping symbols – solve inside grouping symbols first; grouping symbols include (), [], { }, $\frac{\Box}{\Box}$
2	Exponents – always act last (e.g., above integer), 10^3, 10^4
3	Multiplication & Division – in the order of appearance (i.e., first come, first served)
4	Addition & Subtraction – in the order of appearance (i.e., first come, first served)

Decimal Operations		
Use Up Decimals!	Process	Examples
+	Line up decimals. Add normally. Drop decimal straight down in sum.	$23.05 + 308 \text{ change to } 23.05$ $+ 308$ 331.05
−	Line up decimals. Subtract normally. Drop decimal straight down in difference.	$9.807 - 3.672 \text{ change to } 9.807$ $- 3.672$ 6.135
×	Multiply normally. Count places to right of all decimals in problem. Move decimal to left same number of places in solution.	$31.2 \times 10^3 \text{ change to } 31.2$ $\times 10^3$ $31,200$
÷	1. 2.00 decimal is clean. Move decimal in divisor to right to create whole number. Move decimal in dividend same number of places. Divide UP decimal from dividend into quotient.	$30.5 \div 5 \text{ change to } 3.05$ $\div 5$ 6.1
÷	1. 2.00 decimal is clean. Move decimal in divisor to right to create whole number. Move decimal in dividend same number of places. Divide UP decimal from dividend into quotient.	$75.3 \div 0.25 \text{ change to } 7,530 \div 25$ $\div 25$ 301.2

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.	$3 + -5 = -2$ has greatest absolute value, so answer is negative
Same Signs	"Add the Opposite" — change to addition; use opposite of 2nd integer; follow addition process.	$-5 - 3 \text{ change to } -5 + 3 = -2$
Different Signs	"Add the Opposite" — change to addition; use opposite of 2nd integer; follow addition process.	$3 - (-5) \text{ change to } 3 + 5 = 8$
Same Signs	Positive product: pos + pos = pos neg + neg = pos	$3 \times 3 = 9$
Different Signs	Negative product: pos + neg = neg neg + pos = neg	$3 \times -3 = -9$
Same Signs	Positive quotient: pos + pos = pos neg + neg = pos	$24 \div 3 = 8$
Different Signs	Negative quotient: pos + neg = neg neg + pos = neg	$24 \div -3 = -8$

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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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