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Math Fundamentals 3 (Quickstudy: Academic)

BigCharts, Inc.™

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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

+	addition	sum
-	subtraction	difference
×	multiplication	product
÷	division	quotient

Order of Operations

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

Decimal Operations

Like Up Technique*	Process	Examples
+	Line up decimals. Add normally. Drop decimal straight down in sum.	$23.05 + 108 \text{ change to}$ 23.05 108.00 131.05
-	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.	$31.2 \times .07 \text{ change to}$ 31.2 $\times .07$ 2.184
÷	If NO decimal (divisor), divide normally. Bring UP 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 UP decimal from dividend into quotient.	$20.5 \div 5 \text{ change to}$ 4.1 $5 \overline{)20.5}$ $15.2 \div 6.25 \text{ change to}$ $152 \overline{)75.2}$ 12.048 $625 \overline{)750.000}$

Integer Operations

Signs	Process	Examples
+	Same Signs Answer keeps same sign. pos + pos = pos; neg + neg = neg	$-3 + -4 = -7$
-	Different Signs Subtract the numbers. Keep sign of number with greatest absolute value; so answer is negative.	$-4 + 5 = 1$ (4 has greater absolute value, so answer is negative)
×	Same Signs "Add the Decimals"—change to addition; use opposite of 2nd integer; follow addition process.	$-3 - (-4) \text{ change to}$ $-3 + 4 = 1$
÷	Different Signs "Add the Decimals"—change to addition; use opposite of 2nd integer; follow addition process.	$-3 - (-4) \text{ change to}$ $-3 + 4 = 1$
+	Same Signs pos + pos = pos; neg + neg = neg	$-4 + -5 = -9$
-	Different Signs pos + neg = neg; neg + pos = neg	$-4 + 5 = 1$
×	Same Signs pos × pos = pos; neg × neg = pos	$-4 × -5 = 20$
÷	Different Signs pos ÷ neg = neg; neg ÷ pos = neg	$-4 ÷ 5 = -.8$

SYMBOL

=	equal
≠	not equal
<	less than
>	greater than
≤	less than or equal to
≥	greater than or equal to
+	add
-	subtract
×	multiply
÷	divide

PLACE VALUE

billions	hundreds millions	ten millions	hundreds thousands	ten thousands	hundreds	ones	tenths	hundredths	thousandths	ten thousandths	hundred thousandths	millionths
1	2	3	4	5	6	7	8	9	0	1	2	3

ROMAN NUMERALS

I	1	II	2	III	3	IV	4	V	5
VI	6	VII	7	VIII	8	IX	9	X	10
XI	11	XII	12	XIII	13	XIV	14	XV	15
XVI	16	XVII	17	XVIII	18	XIX	19	XX	20
XXI	21	XXII	22	XXIII	23	XXIV	24	XXV	25
XXVI	26	XXVII	27	XXVIII	28	XXIX	29	XXX	30
XXXI	31	XXXII	32	XXXIII	33	XXXIV	34	XXXV	35
XXXVI	36	XXXVII	37	XXXVIII	38	XXXIX	39	XL	40
XLI	41	XLII	42	XLIII	43	XLIV	44	XLV	45
XLVI	46	XLVII	47	XLVIII	48	XLIX	49	L	50
LXI	51	LXII	52	LXIII	53	LXIV	54	LXV	55
LXVI	56	LXVII	57	LXVIII	58	LXIX	59	LXX	60
LXXI	61	LXXII	62	LXXIII	63	LXXIV	64	LXXV	65
LXXVI	66	LXXVII	67	LXXVIII	68	LXXIX	69	LXXX	70
LXXXI	71	LXXXII	72	LXXXIII	73	LXXXIV	74	LXXXV	75
LXXXVI	76	LXXXVII	77	LXXXVIII	78	LXXXIX	79	LXXX	80
LXXXI	81	LXXXII	82	LXXXIII	83	LXXXIV	84	LXXXV	85
LXXXVI	86	LXXXVII	87	LXXXVIII	88	LXXXIX	89	LXXX	90
LXXXI	91	LXXXII	92	LXXXIII	93	LXXXIV	94	LXXXV	95
LXXXVI	96	LXXXVII	97	LXXXVIII	98	LXXXIX	99	LXXX	100

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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

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.

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.

Hey, I love math. This is a good study to keep the mind working.

Extremely useful!

Great reference for elementary maths.

All good thank you

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!

Ordered for grand kids, their parents couldn't put it down. Excellent gift.

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