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Math Fundamentals 3 (Quickstudy: Academic)

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Quick Study ACADEMIC

WORD'S AT ACADEMIC OUTLINE

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Algebraic Equations & much more!

Math Fundamentals 3

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

- 1 **Grouping symbols** – solve inside grouping symbols first; grouping symbols include (), [], { }, $\overline{}$
- 2 **Exponents** – always set superscript (i.e., above figure); 10^3 , 10^2 , 10^1
- 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
+	yes	Line up decimals. Add normally. Drop decimal straight down to sum.	$23.06 + 3.08$ change to $\begin{array}{r} 23.06 \\ + 3.08 \\ \hline 26.14 \end{array}$
-	yes	Line up decimals. Subtract normally. Drop decimal straight down to difference.	$8.807 - 5.412$ change to $\begin{array}{r} 8.807 \\ - 5.412 \\ \hline 3.395 \end{array}$
×	no	Multiply normally. Count places to right of all decimals to problem. Most decimal to left same number of places to solution.	31.2×67 change to $\begin{array}{r} 31.2 \\ \times 67 \\ \hline 20904 \end{array}$
÷	no	Place decimal in dividend. Divide normally. Bring "up" decimal from dividend into quotient.	$20.5 \div 5$ change to $\begin{array}{r} 4.1 \\ 5 \overline{) 20.5} \end{array}$
+	no	Place decimal in dividend. Divide normally. Bring "up" decimal from dividend into quotient.	$75.2 \div 6.25$ change to $\begin{array}{r} 12.048 \\ 6.25 \overline{) 75.2} \end{array}$

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, or answer negative.	$6 + -3 = 3$ (6 has greater absolute value, so answer positive)
-	Same Signs	"Add the Opposite" – change to addition, use opposite of 2nd integer; follow addition procedure.	$5 - -4$ change to $5 + 4 = 9$
-	Different Signs	"Add the Opposite" – change to addition, use opposite of 2nd integer; follow addition procedure.	$-7 - 12$ change to $-7 + 12 = 5$
×	Same Signs	Positive product plus + plus = plus neg + plus = plus	$6 \times 3 = 18$
×	Different Signs	Negative product plus + neg = neg neg + plus = neg	$-6 \times 3 = -18$
÷	Same Signs	Positive quotient plus + plus = plus neg + neg = plus	$24 \div 4 = 6$
÷	Different Signs	Negative quotient plus + neg = neg neg + plus = neg	$27 \div -9 = -3$

SYMBOL

- ≠ unequal
- ≠ 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	thousands	hundreds	tens	ones	tenths	hundredths	thousandths	ten thousandths	hundred thousandths	millionths
1	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

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



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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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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