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Math Fundamentals 3 (Quickstudy: Academic)

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WORLD'S #1 ACADEMIC OUTLINE

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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

- 1** **Grouping symbols** – solve inside grouping symbols first; grouping symbols include $\{, [], ()$
- 2** **Exponents** – always set superscript (i.e., above letters) 5^2 , 10^3 , 10^{-1}
- 3** **MED Multiplication & Division** – in the order of appearance (i.e., first come, first served)
- 4** **ASD 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.	$23.35 + 3.08$ change to $\begin{array}{r} 23.35 \\ + 3.08 \\ \hline 26.43 \end{array}$
-	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 $\begin{array}{r} 31.2 \\ \times 67 \\ \hline 2084 \end{array}$
÷	no	Move decimal to divide. 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	Move decimal to divide. Move decimal to divide to right to create whole number. Most decimal to dividend same number of places. Bring "up" decimal from dividend into quotient.	$75.2 \div 6.25$ change to $\begin{array}{r} 12.048 \\ 6.25 \overline{) 75.200} \end{array}$

Integer Operations

	Signs	Process	Examples
+	Same Signs	Answer boxes write sign. $pos + pos = pos$ $neg + neg = neg$	$-3 + -4 = -7$
+	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 $pos \times pos = pos$ $neg \times neg = pos$	$6 \times 3 = 18$
×	Different Signs	Negative product $pos \times neg = neg$ $neg \times pos = neg$	$-6 \times 3 = -18$
÷	Same Signs	Positive quotient $pos \div pos = pos$ $neg \div neg = pos$	$24 \div 4 = 6$
÷	Different Signs	Negative quotient $pos \div neg = neg$ $neg \div pos = neg$	$27 \div -3 = -9$

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

ROMAN NUMERALS

I	1	IV	4	V	5
II	2	VIII	8	X	10
III	3	IX	9	XI	11
VI	6	X	10	XII	12
VII	7	XI	11	XIII	13
VIII	8	XII	12	XIV	14
IX	9	XIII	13	XV	15
X	10	XIV	14	XVI	16
XI	11	XV	15	XVII	17
XII	12	XVI	16	XVIII	18
XIII	13	XVII	17	XIX	19
XIV	14	XVIII	18	XX	20
XV	15	XIX	19	XXI	21
XVI	16	XX	20	XXII	22
XVII	17	XXI	21	XXIII	23
XVIII	18	XXII	22	XXIV	24
XIX	19	XXIII	23	XXV	25
XX	20	XXIV	24	XXVI	26
XXI	21	XXV	25	XXVII	27
XXII	22	XXVI	26	XXVIII	28
XXIII	23	XXVII	27	XXIX	29
XXIV	24	XXVIII	28	XXX	30
XXV	25	XXIX	29	XXXI	31
XXVI	26	XXX	30	XXXII	32
XXVII	27	XXXI	31	XXXIII	33
XXVIII	28	XXXII			

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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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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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