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Math Fundamentals 3 (Quickstudy: Academic)

BarCharts, Inc.®

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

Order of Operations

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

- 1 G** **Grouping** symbols = solve inside grouping symbols first; grouping symbols include (), [], { }, [^]
- 2 E** **Exponents** = always set superscript (i.e., above integer). Ex: 10², 10³

- 3 M&D** **Multiply & Divide** = in the order of appearance (i.e., first come, first served)
- 4 A&S** **Add & Subtract** = in the order of appearance (i.e., first come, first served)

Decimal Operations

Use the Technique	Process	Examples
+	yes Line up decimals. Add normally. Drop decimal straight down in sum.	23.05 + 108 change to: 23.05 + 108.00 ----- 131.05
-	yes Line up decimals. Subtract normally. Drop decimal straight down in difference.	9.807 - 3.672 change to: 9.807 - 3.672 ----- 6.135
×	no Multiply normally. Count places to right of all decimals in problem. Move decimal to left same number of places in solution.	31.2 × .07 change to: 31.2 × .07 ----- 2.184
÷	no If NO decimal (divisor): Divide normally. Bring 0 if 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 0 if decimal from dividend into quotient.	20.5 ÷ 5 change to: 4.1 5 20.5 20 -- .5 5 5.0 5 -- 0 6.25 75.2 change to: 625 752.00 625 -- 12.040

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 Absorbers" = change to add them; use positive of 2nd integer; follow addition process. Different Signs "Add the Absorbers" = change to add them; use opposite of 2nd integer; follow addition process.	-5 + -3 change to: 5 + 3 = 8 -5 + 3 change to: 5 - 3 = 2
÷	Same Signs Positive product: pos ÷ pos = pos neg ÷ neg = pos Different Signs Negative product: pos ÷ neg = neg neg ÷ pos = neg	6 ÷ 3 = 2 -6 ÷ 3 = -2
+	Same Signs Positive quotient: pos ÷ pos = pos neg ÷ neg = pos Different Signs Negative quotient: pos ÷ neg = neg neg ÷ pos = neg	24 ÷ 4 = 6 27 ÷ -9 = -3

SYMBOL

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

PLACE VALUE

billions	hundreds of millions	ten millions	hundreds of thousands	ten thousands	hundreds	tens	ones	units	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	II	III	IV	V	VI	VII	VIII	IX	X
1	2	3	4	5	6	7	8	9	10
L	XL	XXX	XX	X	IX	VIII	VII	VI	V
50	40	30	20	10	9	8	7	6	5
C	XC	LXXX	LXX	LX	XL	XXX	XX	X	0
100	90	80	70	60	50	40	30	20	10
D	CD	CCC	CC	C	XC	LXXX	LXX	LX	50
500	400	300	200	100	90	80	70	60	50
M	CM	DCCC	DCC	D	CCC	CC	C	0	0
1,000	900	800	700	600	500	400	300	200	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

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.

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!

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.

Easy to understand and tells me everything that I need to teach my daughter for homeschooling, I would recommend this products highly!

The kids love this. Great for review of the basics of math courses and for working contracts and

program management.

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

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

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