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Math Fundamentals 3 (Quickstudy: Academic)

BarCharts, Inc.[®]

Quick Study Academic

WORLD'S #1 ACADEMIC OUTLINE

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 parts of mathematics.

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OPERATIONS

Operation Solution

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

Order of Operations

- 1 **G**rouping symbols – solve inside grouping symbols first. Increasing grouping symbols include {}, (), (), ()
- 2 **E**xponents – always solve superscripts (i.e., above integer): 8^3 , 10^2 , 10^3
- 3 **M**ultiplication & **D**ivision – in the order of appearance (i.e., first come, first serve)
- 4 **A**ddition & **S**ubtraction – in the order of appearance (i.e., first come, first serve)

Decimal Operations

	Line up decimal	Process	Examples
+	yes	Line up decimal add normally Drop decimal straight down if zero	$23.05 + .528$ change to 23.05 1.528 23.583
-	yes	Line up decimal Subtract normally Drop decimal straight down if difference	$9.897 - 3.672$ (borrow 1 from 8) 9.897 - 3.672 6.225
×	no	Multiply normally Count places to right of all numbers in problem Move decimal to left same number of places in solution	$31.2 \times .07$ change to 31.2 .07 2.184
÷	no	2 decimal in divisor; Divide normally Bring UP decimal from dividend into quotient Move decimal in dividend same number of places down as there are decimal in quotient	$20.5 \div 5$ change to 4.1 1.205 $20.5 \div 75.3$ change to 0.27 425 75.30000 12.044 425 32.00000

Integer Operations

	Signs	Process	Examples
+	Same Signs	Addition (keep same sign) pos + pos = pos neg + neg = neg	$-3 + 4 = 1$
-	Different Signs	Subtract the numbers keep sign of number with greater absolute value	$8 + 2 = 10$ (8 has greater absolute value, answer is positive) $8 - 2 = 6$
+	Same Signs	"Add the Opposite" – change to addition case positive + positive = positive negative + negative = negative	$0 + 4 = 4$ change to $0 + 4 = 4$
-	Different Signs	"Add the Opposite" – change to addition case positive + negative = negative negative + positive = positive	$7 - (-2)$ change to $7 + 2 = 9$
×	Same Signs	Positive product: pos × pos = pos neg × neg = pos	$-2 \times -3 = 6$
×	Different Signs	Negative product: pos × neg = neg neg × pos = neg	$-4 \times 6 = -24$
÷	Same Signs	Positive quotient: pos ÷ pos = pos neg ÷ neg = pos	$24 \div -4 = -6$
÷	Different Signs	Negative quotient: pos ÷ neg = neg neg ÷ pos = neg	$27 \div 9 = -3$

SYMBOL

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

PLACE VALUE

ones	tens	hundreds	thousands	ten thousands	hundreds of thousands	thousands of thousands	ten thousands of thousands	hundreds of thousands of thousands	thousands of thousands of thousands
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ROMAN NUMERALS

I	II	III	IV	V	VI	VII	VIII	VII	X
1	2	3	4	5	6	7	8	9	10
V	X	L	C	D	M				
5	10	50	100	500	1,000				
X	L	C	D	M					
10	50	100	500	1,000					
L	C	D	M						
50	100	500	1,000						
C	D	M							
100	500	1,000							
D	M								
500	1,000								
M									
1,000									

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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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