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Math Fundamentals 3 (Quickstudy: Academic)

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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).
- Addition & Subtraction** — in the order of appearance (i.e., first come, first served).

Decimal Operations

	Like Up Technique*	Process	Examples
+	yes	Line up decimals. Add normally. Drop decimal straight down in sum.	$23.05 + 108 \text{ change to}$ 23.05 108.00 131.05
-	yes	Line up decimals. Subtract normally. Drop decimal straight down in difference.	$9.807 - 3.672 \text{ change to}$ 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.	$31.2 \times .07 \text{ change to}$ 31.2 $\times .07$ 2.184
÷	no	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 $5 \overline{)20.5}$ 4.1 $75.2 \div 6.25 \text{ change to}$ 10 $6.25 \overline{)75.2}$ change to 12.048 $625 \overline{)7520.00}$

Integer Operations

	Signs	Process	Examples
+	Same Signs Different Signs	Answer keeps same sign. pos + pos = pos; neg + neg = neg; Subtract the numbers. Keep sign of number with greatest absolute value; so answer is negative.	$-3 + -4 = -7$ $-4 + 5 = 1$ (4 has greater absolute value, so answer is negative)
-	Same Signs Different Signs	"Add the Decimals" — change to addition; use opposite of 2nd integer; follow addition process. "Add the Decimals" — change to addition; use opposite of 2nd integer; follow addition process.	$-3 \times -4 \text{ change to}$ $3 \times 4 = 12$ $-3 \times 4 \text{ change to}$ $3 \times 4 = 12$
×	Same Signs Different Signs	Positive product pos × pos = pos; neg × neg = pos; Negative product pos × neg = neg; neg × pos = neg	$4 \times 5 = 20$ $-4 \times 5 = -20$
÷	Same Signs Different Signs	Positive quotient pos ÷ pos = pos; neg ÷ neg = pos; Negative quotient pos ÷ neg = neg; neg ÷ pos = neg	$4 \div 5 = .8$ $-4 \div 5 = -.8$

SYMBOL

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

PLACE VALUE

trillion	hundred billions	ten billions	one billion	hundreds of millions	ten millions	one million	hundreds of thousands	ten thousands	one thousand	hundreds	tens	ones	decimal	fraction	percent	thousandths	millionths	billionths
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

ROMAN NUMERALS

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI	XXII	XXIII	XXIV	XXV	XXVI	XXVII	XXVIII	XXIX	XXX	XXXI	XXXII	XXXIII	XXXIV	XXXV	XXXVI	XXXVII	XXXVIII	XXXIX	XL	XLI	XLII	XLIII	XLIV	XLV	XLVI	XLVII	XLVIII	XLIX	L	LXI	LXII	LXIII	LXIV	LXV	LXVI	LXVII	LXVIII	LXIX	LXX	LXXI	LXXII	LXXIII	LXXIV	LXXV	LXXVI	LXXVII	LXXVIII	LXXIX	LXXX	LXXXI	LXXXII	LXXXIII	LXXXIV	LXXXV	LXXXVI	LXXXVII	LXXXVIII	LXXXIX	XC	XCI	XCII	XCIII	XCIV	XCV	XCVI	XCVII	XCVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	XCIX	C	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII</
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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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