



MATH FUNDAMENTALS

Number Sense & Operations

1

Numbers, Operations & Measurement | Fractions, Factorization, Ratios, Proportions, Properties & more!

What Are Math Fundamentals?

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.

SYMBOL

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

PLACE VALUE

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

ROMAN NUMERALS

I	1	XIX	20	CC	200
II	2	XXIX	30	CCC	300
III	3	XL	40	CD	400
IV	4	L	50	D	500
V	5	LX	60	DC	600
VI	6	LXX	70	DCC	700
VII	7	LXXX	80	DCCC	800
VIII	8	XC	90	CM	900
IX	9	C	100	M	1000
X	10				

WAYS TO READ AND WRITE NUMBERS

Standard Form:

A way of writing a number using digits.

EX:
538,924
EX:
17.065

Groupings of 3 digits (called a period) are usually indicated by a comma (sometimes omitted for 4-digit numbers, as in this guide).

Word Form:

A way of writing a number using words instead of digits.

EX:
Five hundred thirty-eight thousand, nine hundred twenty-four
EX:
Seventeen and sixty-five thousandths

Short Word Form:

A way of writing a number using a combination of digits and words.

EX:
538 thousand, 924
EX:
17 and 65 thousandths

Expanded Form:

A way of writing a number using the value of each digit.

EX:
500,000 + 30,000 + 8000 + 900 + 20 + 4
EX:
10 + 7 + 0.06 + 0.005

COMPARE, ORDER, AND ROUND WHOLE NUMBERS

Compare:

EX:
Compare 6,859,853 and 6,857,967

1. Line up the numbers by place value.
2. Start from the left. Compare the digits until they are different.

6,859,853
6,857,967

9 thousands > 7 thousands,
so 6,859,853 > 6,857,967



When using a number line to compare numbers, greater numbers are to the right of lesser numbers.

Order:

EX:
Order 74,635; 74,629; and 74,408

1. Line up the numbers by place value.
2. Start from the left. Compare the digits until they are different.
3. Continue to compare.

74,635
74,629
74,408

4 hundreds < 6 hundreds and
2 tens < 3 tens, so, the numbers from
least to greatest are 74,408; 74,629;
74,635

Round:

EX:
Round 5,732,957 to the nearest hundred thousand

1. Identify the place you are rounding to.
2. Look at the digit to its right.
3. If the digit to the right is 5 or greater, round up. If the digit to the right is less than 5, round down.

5,732,957

7 is in the hundred-thousands place. 3 is to its right. 3 < 5, so round down. 5,732,957 rounded to the nearest hundred thousand is 5,700,000

OPERATIONS

Operation

Solution

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

Order of Operations

1



Grouping Symbols—work inside grouping symbols first; grouping symbols include: (), [], { }, /

2



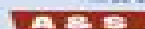
Exponents—always set superscript (i.e., above integer); **EX:** 10⁴, 10³

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)

General Mathematics A Fundamentals Approach

S Baum



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