



# MATH FUNDAMENTALS

## Number Sense & Operations

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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 + 8,000 + 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 **G** **Grouping Symbols**—work inside grouping symbols first; grouping symbols include: ( ), [ ], { }, /
- 2 **E** **Exponents**—always set superscript (i.e., above integer); **EX:**  $10^4$ ,  $10^3$
- 3 **M&D** **Multiplication & Division**—in the order of appearance (i.e., first come, first served)
- 4 **A&S** **Addition & Subtraction**—in the order of appearance (i.e., first come, first served)

# Lecture Math Guide

**Desmond J. Higham, Nicholas J. Higham**

## Lecture Math Guide:

## Enjoying the Melody of Phrase: An Emotional Symphony within **Lecture Math Guide**

In a world taken by displays and the ceaseless chatter of instantaneous connection, the melodic beauty and psychological symphony developed by the written term usually disappear in to the back ground, eclipsed by the constant sound and disruptions that permeate our lives. Nevertheless, situated within the pages of **Lecture Math Guide** a wonderful literary value brimming with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that interesting masterpiece conducts viewers on an emotional journey, skillfully unraveling the concealed melodies and profound influence resonating within each cautiously constructed phrase. Within the depths of this poignant evaluation, we shall explore the book's main harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers' souls.

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