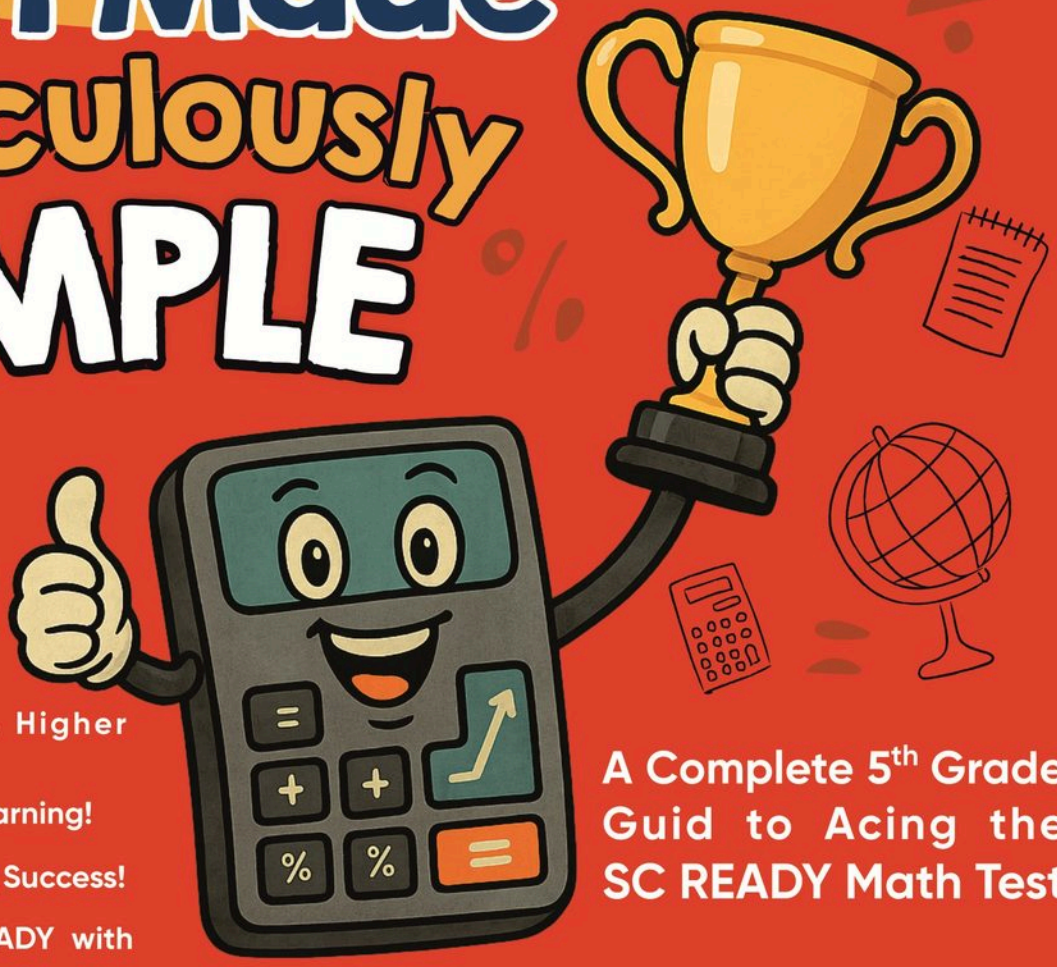
# South Carolina

# SC READY Grade 5

# Math Made Ridiculously SIMPLE



- Smarter Practice. Higher Scores.
- Fast, Fun, Focused Learning!
- Your Shortcut to Math Success!
- Conquer the SC READY with

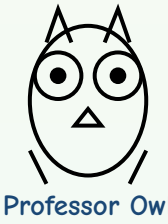
A Complete 5th Grade Guid to Acing the SC READY Math Test

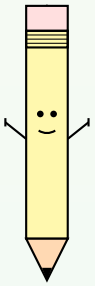
Learn Faster · Understand Deeper · Succeed with Confidence

Reza Nazari

# South Carolina SC READY Grade 5 Math Made Ridiculously Simple

*A Comprehensive 5th Grade Guide to Acing SC READY Math*




*with Professor Owl and Pip*

Reza Nazari

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# A Note for Parents and Teachers

Dear Parents and Teachers,

Welcome to **South Carolina SC READY Grade 5 Math Made Ridiculously Simple**! Fifth grade is a turning point — students build on what they learned in earlier grades and encounter decimal operations, fraction arithmetic with unlike denominators, volume, the coordinate plane, and algebraic thinking at a deep level.

This book is designed so that a $5^{\text{th}}$ grader can read, understand, and practice *independently*. Every lesson teaches the concept *before* asking students to practice it.

**What makes this book effective:**

◇ **Teach-first design:** Concepts are explained clearly before any practice problems appear
◇ **Visual-rich:** Area models, number lines, coordinate grids, and volume diagrams throughout
◇ **Gradual difficulty:** Problems start simple and build, so confidence grows naturally
◇ **Student-friendly voice:** Written so $5^{\text{th}}$ graders can read it themselves
◇ **South Carolina SC READY aligned:** Every lesson targets tested state standards

## Tips for Maximum Impact

**1. Let them lead.** This book is written for the student. Let your child read and work through problems first, then check in.

**2. Focus on understanding, not speed.** A student who can explain *why* $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$ understands more than one who memorized the answer.

**3. Use real life.** Cooking (doubling recipes), shopping (calculating discounts), and building (measuring volume) all reinforce $5^{\text{th}}$ grade math naturally.

**4. Normalize struggle.** When your child says "I don't get it," respond with "Let's look at the example again together" — not with worry.

**5. Track progress together.** Use the Mission Dashboard on the progress tracking page to celebrate growth over time.

**You don't need to be a math expert. You just need to be in their corner.**

# The Code Breaker's Guide

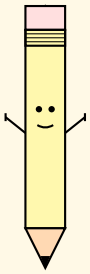
*Every agent needs to decode the language of math!*

## Essential Codes & Symbols for 5th Grade

| Symbol | Meaning | Example |
|---|---|---|
| $+ \ - \ \times \ \div$ | Add, Subtract, Multiply, Divide | $4.5 \times 2.3 = 10.35$ |
| $=$ | Is equal to | $\frac{2}{6} = \frac{1}{3}$ |
| $\neq$ | Is NOT equal to | $\frac{1}{3} \neq \frac{1}{4}$ |
| $>$ $<$ | Greater / Less than | $0.45 > 0.405$ |
| $($ $)$ | Parentheses (do this first!) | $3 \times (4 + 2) = 18$ |
| $\{$ $\}$ | Braces (grouping) | $\{2, 4, 6, 8\}$ |
| $10^n$ | Powers of 10 | $10^3 = 1{,}000$ |
| $(x, y)$ | Ordered pair (coordinate) | Point $A$ at $(3, 5)$ |
| $V$ | Volume | $V = l \times w \times h$ |
| $\text{cm}^3$, $\text{in}^3$, $\text{ft}^3$ | Cubic units (volume) | $V = 60\ \text{cm}^3$ |
| $\frac{a}{b}$ | Fraction | $\frac{7}{12}$ |
| $\angle$ | Angle | $\angle XYZ = 110°$ |
| $\parallel$ $\perp$ | Parallel / Perpendicular | $\overline{AB} \perp \overline{CD}$ |

## Essential 5th Grade Vocabulary

| Word | What It Means |
|---|---|
| **Expression** | Numbers and operations grouped together $(3 + 5 \times 2)$ |
| **Evaluate** | Find the value of an expression |
| **Coordinate Plane** | A grid with an $x$-axis and $y$-axis for plotting points |
| **Ordered Pair** | $(x, y)$ — the address of a point on the coordinate plane |
| **Origin** | The point $(0, 0)$ where the axes cross |
| **Volume** | The amount of space inside a 3-D shape (in cubic units) |
| **Unlike Denominators** | Fractions with different bottom numbers ($\frac{1}{3}$ and $\frac{1}{5}$) |
| **Common Denominator** | A shared denominator used to add/subtract fractions |
| **Powers of 10** | $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$, etc. |
| **Thousandths** | The third place after the decimal ($0.00\underline{1}$) |
| **Quotient** | The answer to a division problem |
| **Composite Figure** | A shape made of two or more simpler shapes joined together |



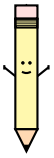
**Pip's Tip:** Dog-ear this page! Come back to it whenever you hit an unfamiliar symbol or word. An agent who knows the code works twice as fast.





Algebra ideas?
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## ★ ✎ Reading & Writing Practice ✎ ★



Numbers have three forms: standard, word, and expanded. Master switching between them and you'll be a number wizard!

### Write Each Number in Word Form

**1.** 352,817 _____

**2.** 4,200,065 _____

**3.** 920,403 _____

**4.** 7,018,500 _____

### Write Each Number in Standard Form

**5.** sixty-three thousand, two hundred nine = _____

**6.** five million, one hundred forty thousand, six hundred = _____

**7.** eight hundred six thousand, thirty-one = _____

**8.** two million, nine hundred five = _____

### Write in Standard Form

**9.** $600{,}000 + 50{,}000 + 3{,}000 + 400 + 20 + 7 =$ _____

**10.** $4{,}000{,}000 + 30{,}000 + 700 + 8 =$ _____

**11.** $1{,}000{,}000 + 200{,}000 + 9{,}000 + 60 + 1 =$ _____

**12.** $500{,}000 + 80{,}000 + 100 + 50 + 3 =$ _____

### Challenge!

**13.** A city has a population of 2,704,038. Write this number in word form. _____

**14.** Write the largest and smallest 7-digit numbers using only the digits 8, 0, 3, 5, 1, 9, 7 (each used once). **Largest:** _____ **Smallest:** _____





Sketch it. Scan for help.

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## Comparing and Ordering Numbers

### Comparison Symbols

**< Less Than**

**> Greater Than**

**= Equal To**

456,892 < 1,203,500

opens toward the bigger number!

### Steps to Compare Numbers

1. **Check the number of digits.**
More digits = greater number!

2. **Same number of digits?**
Compare from **LEFT to RIGHT**.

3. **Find the first different digit.**
The number with the bigger digit wins!

4. **Write the symbol:** <, >, or =

## ★ Worked Examples

### Compare 3,452,810 and 3,457,206

1. Same digits? Yes, both have 7.
2. Compare left to right:
$3 = 3$, $4 = 4$, $5 = 5$, $2 < 7$
3. **3,452,810 < 3,457,206**

### Order from Least to Greatest

875,430 1,250,000 875,290

1. 1,250,000 has **7 digits**, so it's greatest.
2. Compare: 875,290 < 875,430
3. **875,290 < 875,430 < 1,250,000**

## Remember!

**Always start comparing from the LEFT!**

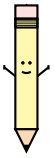
- More digits = **greater** number
- The **alligator mouth** always opens toward the bigger number
- Line up place values to compare

*"The alligator is STARVING for the bigger number! Mouth open = bigger wins. It's the hungriest symbol in math. Chomp, chomp!"*

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Geometry? More on site.

## ★ ✎ Comparing & Ordering Practice ✎ ★



Start from the left and find the first digit that's different. That digit tells you which number is bigger. You've got this!

### Compare. Write <, >, or =

**1.** 542,318 ____ 542,381

**2.** 1,205,430 ____ 987,654

**3.** 3,678,921 ____ 3,679,012

**4.** 850,000 ____ 850,000

**5.** 2,345,678 ____ 2,354,678

**6.** 709,815 ____ 4,231,500

### Order from Least to Greatest

**7.** 642,500 624,500 645,200 _____

**8.** 1,300,450 985,720 1,300,540 _____

**9.** 403,999 421,300 412,300 _____

**10.** 520,000 205,000 250,000 _____

### Order from Greatest to Least

**11.** 5,213,890 5,312,890 5,213,980 _____

**12.** 780,215 2,100,050 780,251 _____

**13.** 9,102,000 9,010,200 9,100,200 _____

**14.** 434,400 334,400 343,400 _____

### Fill in the Missing Digit to Make the Statement True

**15.** 4,___52,100 > 4,352,100

**16.** 826,___47 < 826,547

### Challenge!

**17.** Four cities have populations: City A = 2,485,300, City B = 2,485,030, City C = 2,548,300, City D = 2,458,300. Order from greatest to least. _____





Want more? Try the site.

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