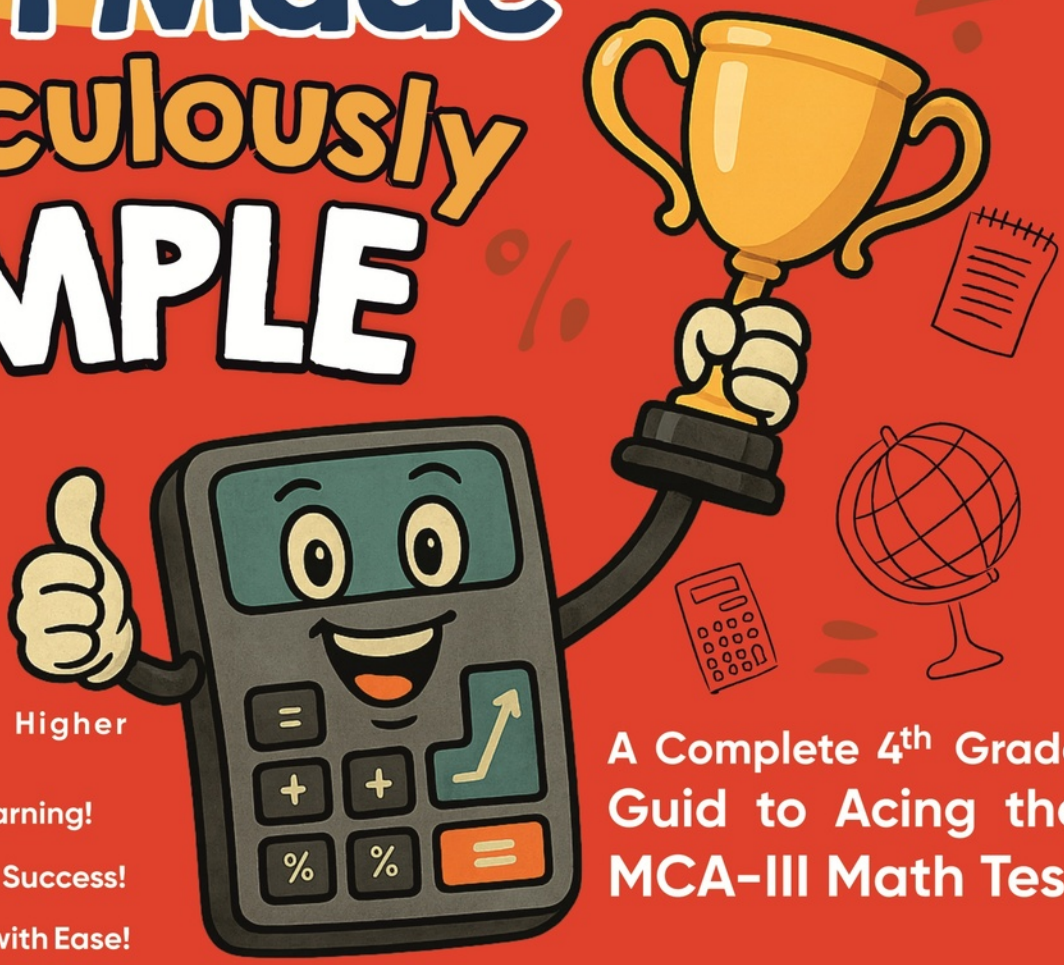
# Minnesota MCA-III Grade 4 Math Made Ridiculously SIMPLE



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

A Complete 4th Grade Guid to Acing the MCA-III Math Test

Learn Faster · Understand Deeper · Succeed with Confidence

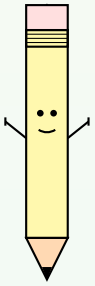
Reza Nazari

# Minnesota MCA-III Grade 4 Math Made Ridiculously Simple

*A Comprehensive $4^{th}$ Grade Guide to Acing MCA-III Math*



Professor Owl



Pip

*with Professor Owl and Pip*

Reza Nazari

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# A Note for Parents and Teachers

Dear Parents and Teachers,

Welcome to **Minnesota MCA-III Grade 4 Math Made Ridiculously Simple**! This book transforms complex $4^{th}$-grade math into clear, engaging lessons that students can follow independently. Fourth grade introduces critical new ideas — multi-digit multiplication and division, fraction arithmetic, decimals, and geometric reasoning — and this book makes each one feel manageable.

**What sets this book apart:**

◇ **Lesson-first approach:** Every topic is *taught* before it is practiced
◇ **Visual explanations:** Diagrams, models, and flowcharts make abstract ideas concrete
◇ **Spiral review:** Concepts reappear so students build lasting understanding
◇ **Kid-friendly language:** Written at a level $4^{th}$ graders can read on their own
◇ **Aligned to Minnesota MCA-III:** Every lesson maps to state standards

## How to Get the Most From This Book

**1. One topic at a time.** Let your child read the lesson, study the examples, then try the practice problems. Resist the urge to rush through multiple topics in one sitting.

**2. Encourage drawing and writing.** Fourth graders learn best when they sketch models, write out steps, and organize their thinking on paper.

**3. Talk about math at meals.** "If we split this pizza into 8 slices and eat 3, what fraction is left?" makes math feel like a natural part of life.

**4. Mistakes are gold.** When your child gets something wrong, say: "Great! Now we know exactly what to work on next."

**5. Celebrate the journey.** Finishing a tough chapter deserves recognition just as much as getting a perfect score.

**Your encouragement is the most powerful math tool your child has.**





Mind blown!
Scan now!

Scan Me

# Your Math Decoder Ring

*Every explorer needs a way to read the language of math!*

## Symbols Every 4th Grader Must Know

| Symbol | Meaning | Example |
|---|---|---|
| $+ \ - \ \times \ \div$ | Add, Subtract, Multiply, Divide | $36 \times 24 = 864$ |
| $=$ | Is equal to | $\frac{2}{4} = \frac{1}{2}$ |
| $\neq$ | Is NOT equal to | $0.5 \neq 0.05$ |
| $> \quad <$ | Greater than / Less than | $4{,}250 > 4{,}025$ |
| $\geq \quad \leq$ | Greater or equal / Less or equal | $x \geq 10$ |
| $\approx$ | Approximately equal to | $2{,}978 \approx 3{,}000$ |
| $\frac{a}{b}$ | Fraction (a parts out of b) | $\frac{3}{8}$ = three-eighths |
| $\angle$ | Angle | $\angle ABC = 55°$ |
| $^\circ$ | Degrees (angle measure) | A right angle $= 90°$ |
| $\parallel$ | Parallel (lines that never meet) | $\overline{AB} \parallel \overline{CD}$ |
| $\perp$ | Perpendicular (meet at 90°) | $\overline{EF} \perp \overline{GH}$ |

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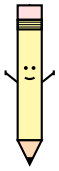
Want to know? Scan and go!

## Power Words for 4th Grade Math

| Word | What It Means |
|---|---|
| **Factor** | A number that divides evenly into another (factors of 12: 1, 2, 3, 4, 6, 12) |
| **Multiple** | The result of multiplying a number (multiples of 5: 5, 10, 15, 20 . . . ) |
| **Prime** | A number with exactly 2 factors: 1 and itself (2, 3, 5, 7, 11 . . . ) |
| **Composite** | A number with more than 2 factors (4, 6, 8, 9, 10 . . . ) |
| **Equivalent** | Equal in value ($\frac{1}{2} = \frac{3}{6}$) |
| **Numerator** | The top number of a fraction (how many parts you have) |
| **Denominator** | The bottom number (how many equal parts in the whole) |
| **Quotient** | The answer to a division problem |
| **Remainder** | What is left over after dividing |
| **Acute** | An angle less than 90° |
| **Obtuse** | An angle greater than 90° but less than 180° |
| **Symmetry** | When one half of a shape mirrors the other |

**Pip's Tip:** Keep this Decoder Ring page bookmarked! Flip back to it whenever you see a symbol or word you need to check. Real explorers use their maps over and over.

# ★ ✎ Comparing & Ordering Practice ✎ ★



Start from the greatest place value and compare digit by digit. Remember: more digits means a bigger number!

## Compare. Write <, >, or =

**1.** 43,271 ___ 43,712

**2.** 109,350 ___ 98,999

**3.** 526,400 ___ 526,400

**4.** 82,046 ___ 82,064

**5.** 374,819 ___ 374,891

**6.** 7,983 ___ 10,001

## Order from Least to Greatest

**7.** 56,480 56,048 56,804 _____

**8.** 203,710 230,170 203,701 _____

**9.** 99,999 100,000 99,099 _____

## Order from Greatest to Least

**10.** 418,305 481,305 418,503 _____

**11.** 72,914 72,491 72,941 _____

## Word Problems

**12.** Three stadiums hold 45,200, 45,020, and 54,200 people. Which stadium is the largest? _____ (holds _____ people)

**13.** A school raised $38,750 in January and $38,507 in February. Which month had more fundraising? _____

## Challenge!

**14.** Using the digits 3, 7, 1, 9, 0, and 5 (each once), write the greatest possible 6-digit number and the least possible 6-digit number. Greatest: _____ Least: _____



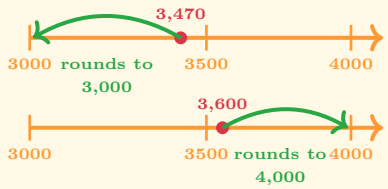


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# Rounding to the Nearest 10, 100, and 1,000

## The Number Line Method




## The Rounding Rule

1. Find the place you are rounding to
2. Look at the digit to its **right**
3. If that digit is **0–4**: round **down**
4. If that digit is **5–9**: round **up**

**Replace all digits to the right with zeros after rounding!**

## ★ Worked Example

### Round to Nearest 10

Round **3,847**:

1. **Find the tens digit:** 4 (the digit in the place we're rounding to)
2. **Look at the digit to the right:** 7 (the ones place)
3. **Compare:** $7 \geq 5$, so we round **up**. The 4 becomes 5; replace the rest with zeros.

**Answer: 3,850**

### Round to Nearest 100

Round **52,361**:

1. **Find the hundreds digit:** 3 (the digit in the place we're rounding to)
2. **Look at the digit to the right:** 6 (the tens place)
3. **Compare:** $6 \geq 5$, so we round **up**. The 3 becomes 4; replace the rest with zeros.

**Answer: 52,400**

### Round to Nearest 1,000

Round **246,319**:

1. **Find the thousands digit:** 6 (the digit in the place we're rounding to)
2. **Look at the digit to the right:** 3 (the hundreds place)
3. **Compare:** $3 < 5$, so we round **down**. Keep the 6; replace the rest with zeros.

**Answer: 246,000**



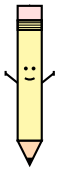
*"Rounding is like parking a car—you look at the nearest space. If the digit next door is 5 or more, move up! If it's 4 or less, stay put!"*

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You're in school! Scan the rule!



# ★ ✎ Rounding Practice ✎ ★



Look at the digit to the RIGHT of where you're rounding. Is it 5 or more? Round up! Is it 4 or less? Round down!

## Round to the Nearest 10

**1.** 347 ≈ _____ **2.** 2,582 ≈ _____ **3.** 61,445 ≈ _____

## Round to the Nearest 100

**4.** 4,736 ≈ _____ **5.** 29,850 ≈ _____ **6.** 183,241 ≈ _____

**7.** 57,962 ≈ _____ **8.** 308,449 ≈ _____ **9.** 74,050 ≈ _____

## Round to the Nearest 1,000

**10.** 8,614 ≈ _____ **11.** 46,500 ≈ _____ **12.** 273,199 ≈ _____

**13.** 125,750 ≈ _____ **14.** 499,501 ≈ _____ **15.** 37,409 ≈ _____

## Word Problems

**16.** A school collected 4,375 cans for a food drive. Round this number to the nearest hundred.

_____ cans

**17.** A road is 28,650 meters long. Round this to the nearest thousand meters.

_____ meters

## Challenge!

**18.** A number rounds to 45,000 when rounded to the nearest thousand. What is the *smallest* possible value of the number?

_____

**19.** What is the *largest* whole number that rounds to 7,200 when rounded to the nearest hundred?

_____





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