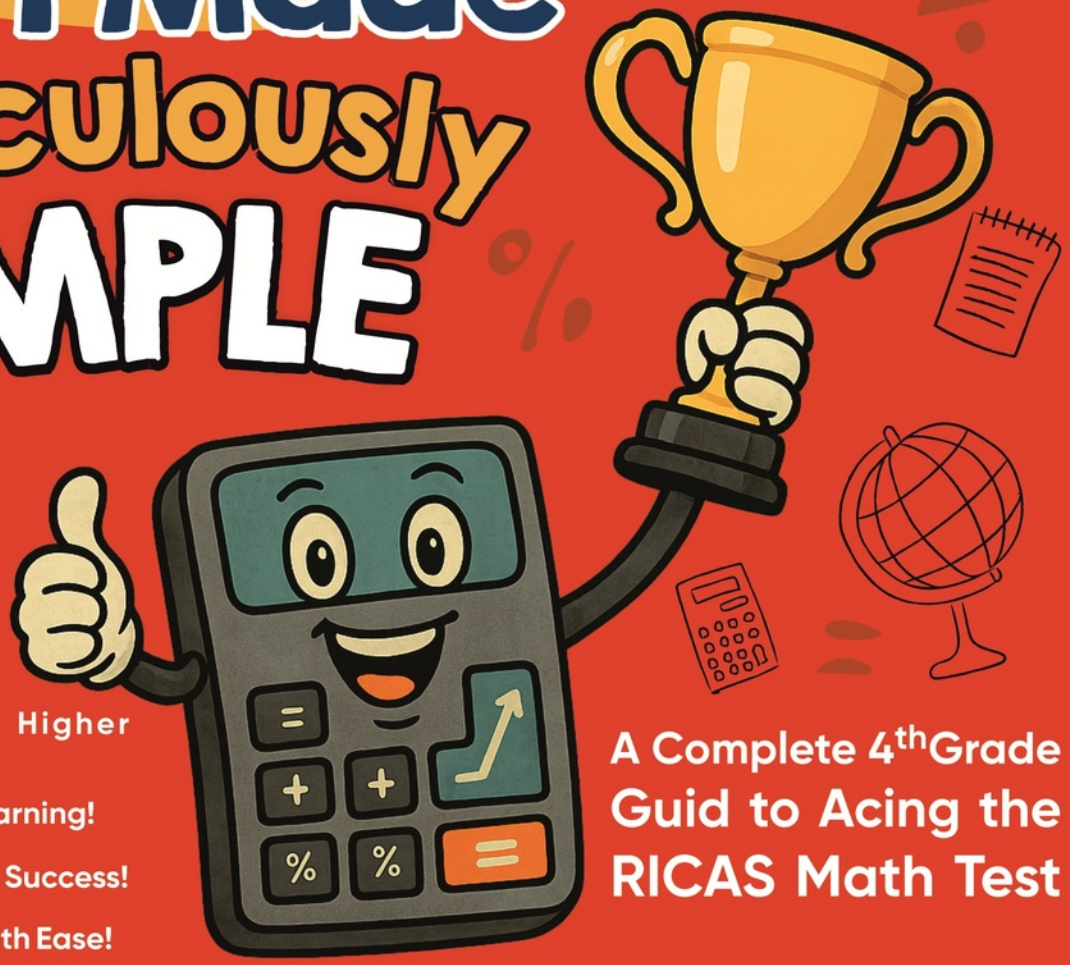
# Rhode Island RICAS Grade 4 Math Made Ridiculously SIMPLE



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

A Complete 4th Grade Guid to Acing the RICAS Math Test

Learn Faster · Understand Deeper · Succeed with Confidence

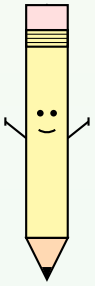
Reza Nazari

# Rhode Island RICAS Grade 4 Math Made Ridiculously Simple

*A Comprehensive 4th Grade Guide to Acing RICAS Math*



Professor Owl



Pip

*with Professor Owl and Pip*

Reza Nazari

# Copyright © 2026

## Effortless Math Education Inc

Published by Effortless Math Education

www.effortlessmath.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

*Copyright © 2026*

# A Note for Parents and Teachers

Dear Parents and Teachers,

Welcome to **Rhode Island RICAS 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 Rhode Island RICAS:** 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.**

# Your Math Decoder Ring

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

## Symbols Every 4th Grader Must Know

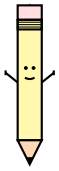
| Symbol | Meaning | Example |
|---|---|---|
| $+ \ - \ \times \ \div$ | Add, Subtract, Multiply, Divide | $36 \times 24 = 864$ |
| $=$ | Is equal to | $\frac{2}{4} = \frac{1}{2}$ |
| $\neq$ | Is NOT equal to | $0.5 \neq 0.05$ |
| $> \quad <$ | Greater than / Less than | $4{,}250 > 4{,}025$ |
| $\geq \quad \leq$ | 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°) | $\overline{EF} \perp \overline{GH}$ |

## 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: _____



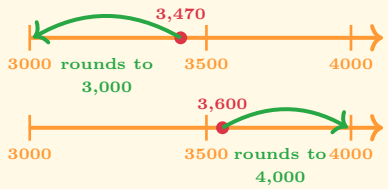


Scan me, scan me! You and me!

Scan Me

# 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**:

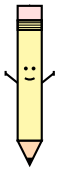
1. **Find the thousands digit:** 6 (the digit in the place we're rounding to)
2. **Look at the digit to the right:** 3 (the hundreds place)
3. **Compare:** $3 < 5$, so we round **down**. Keep the 6; replace the rest with zeros.

**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!"*

# ★ ✎ 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?

_____





Math is fun! Scan to see!

Scan Me