Ohio OST Grade 4 Math Made Ridiculously SIMPLE



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

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

Learn Faster · Understand Deeper · Succeed with Confidence

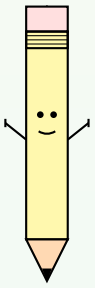
Reza Nazari

Ohio OST Grade 4 Math Made Ridiculously Simple

A Comprehensive 4^{th} Grade Guide to Acing OST 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 **Ohio OST Grade 4 Math Made Ridiculously Simple**! This book transforms complex 4th-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 4th graders can read on their own
- **Aligned to Ohio OST:** 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

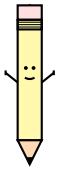
Symbol	Meaning	Example
$+ \ - \ \times \ \div$	Add, Subtract, Multiply, Divide	$36 \times 24 = 864$
$=$	Is equal to	$\frac{2}{4} = \frac{1}{2}$
$\neq$	Is NOT equal to	$0.5 \neq 0.05$
$> \quad <$	Greater than / Less than	$4{,}250 > 4{,}025$
$\geq \quad \leq$	Greater or equal / Less or equal	$x \geq 10$
$\approx$	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: _____

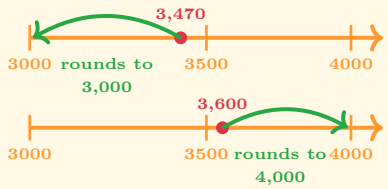


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Rounding to the Nearest 10, 100, and 1,000

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**:

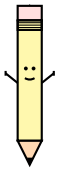
1. **Find the thousands digit:** 6 (the digit in the place we're rounding to)
2. **Look at the digit to the right:** 3 (the hundreds place)
3. **Compare:** $3 < 5$, so we round **down**. Keep the 6; replace the rest with zeros.

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!"

★ ✎ 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?

_____



Scan me, scan me! No more raisin!

Scan Me