

8

Rhode Island

RICAS

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



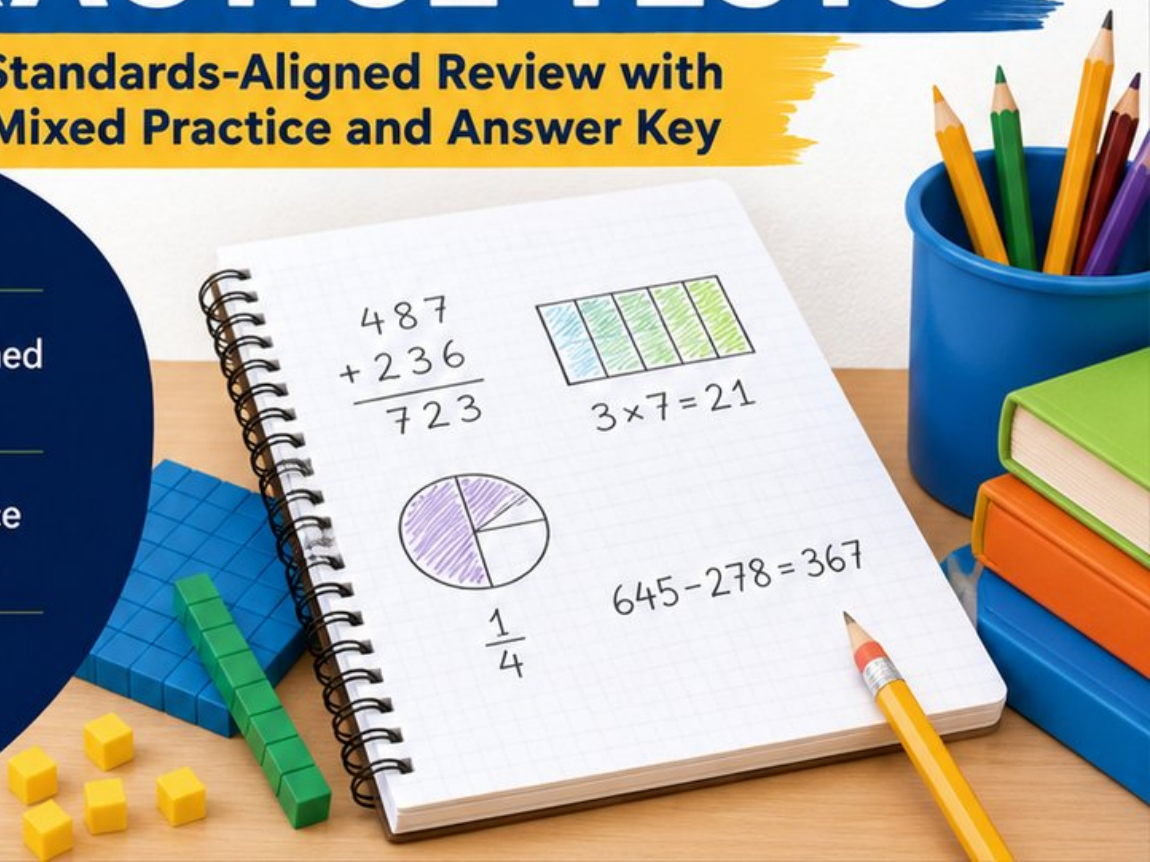
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Rhode Island RICAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question practice rounds for Grade 3 math:
operations, fractions, measurement, data, area, shapes, answer keys,
and clear explanations for every item.

Jay Daie and Reza Nazari



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Rhode Island, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Rhode Island RICAS. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Rhode Island has bay islands, harbor paths, shoreline maps, small-town streets, and focused classrooms, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use careful reading in a small space.

Your Rhode Island Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Rhode Island book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Rhode Island, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the RICAS

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Rhode Island focus: The practice path starts with bay islands, harbor paths, shoreline maps, small-town streets, and focused classrooms. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



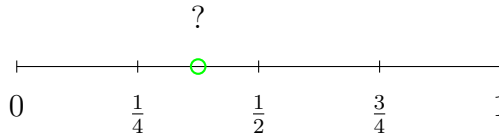
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1) A square has a side length of 5 cm. What is the area of the square?

- A. 20 cm² C. 30 cm²
 B. 10 cm² D. 25 cm²

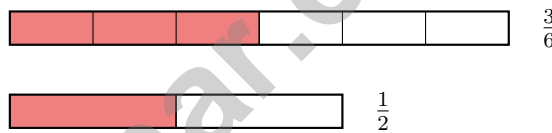


2)

The green dot is halfway between $\frac{1}{4}$ and $\frac{1}{2}$. Which is true?

- A. The dot = $\frac{1}{4}$ C. $\frac{1}{4} < \text{the dot} < \frac{1}{2}$
 B. The dot $> \frac{1}{2}$ and $< \frac{3}{4}$ D. The dot = $\frac{1}{2}$

3) Which fraction is equivalent to $\frac{3}{6}$?



- A. $\frac{2}{5}$ C. $\frac{1}{2}$
 B. $\frac{1}{3}$ D. $\frac{2}{6}$

First part: 218
Second part: 175
Total: ?

4)

This bar model shows an addition problem. What is $218 + 175$?

- A. 393 C. 392
 B. 383 D. 394



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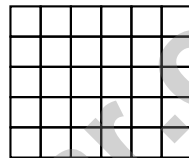
5) A square tile has sides of 3 centimeters each. What is its area in square centimeters?

- A. 6 square centimeters C. 12 square centimeters
 B. 9 square centimeters D. 3 square centimeters

6) A rhombus has how many equal sides?



7) Noah is tiling a floor. He needs to cover a space that is 6 units long and 5 units wide. Here is the layout:



How many unit square tiles does Noah need?

- A. 11 tiles (just the perimeter) C. 30 tiles
 B. 22 tiles (counted twice) D. 60 tiles
- 8) Ava has two ribbons. Both ribbons are the same length. She colors $\frac{3}{6}$ of one ribbon red and $\frac{1}{2}$ of the other ribbon red. Does she color the same amount on both ribbons?
- A. It depends on the ribbon length. C. Yes, both are the same.
 B. No, the first ribbon has more. D. No, the second ribbon has more.



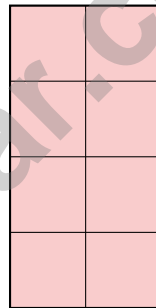
- 9) Look at the line plot showing pencil lengths in inches: 5, $5\frac{1}{4}$, $5\frac{1}{2}$, $5\frac{3}{4}$, 6. There are 2 X's at 5 inches, 1 X at $5\frac{1}{4}$ inches, 3 X's at $5\frac{1}{2}$ inches, 2 X's at $5\frac{3}{4}$ inches, and 1 X at 6 inches. How many pencils are there in total?

- 10) A number line from 0 to 1 is divided into 3 equal parts. The unit fraction is $\frac{1}{3}$. Where is the second tick from 0?

- A. $\frac{1}{3}$ (the unit fraction)
 B. $\frac{2}{3}$ (two unit fractions)

- C. $\frac{1}{6}$
 D. $\frac{3}{3}$

11)



Count the unit squares in the grid shown. What is the area?

- A. 4 square units
 B. 6 square units
 C. 8 square units
 D. 10 square units



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1) Lily has 20 stickers. She puts them in packs of 4 stickers each. How many packs can she make?

A. 4

C. 16

B. 6

D. 5

2) Ben saves \$7 each week. After a certain number of weeks, he has saved \$63. How many weeks did he save?

$$\square \times 7 = 63$$

A. 10

C. 7

B. 8

D. 9

3) Eli has two shapes. Shape 1 is a 2×10 rectangle. Shape 2 is a 4×5 rectangle. Do the shapes have the same area?

A. Yes, both are 20 square units

C. No, Shape 2 has 9 square units

B. No, Shape 1 has 12 square units

D. Cannot determine

4) A bar graph shows the number of books read by students. If each unit on the scale represents 5 books, and a bar's height is 4 units, how many books does that bar represent?

A. 9

C. 20

B. 15

D. 25

5) Which two products are equal to each other?

A. 3×80 and 8×30

C. 6×40 and 8×20

B. 4×50 and 5×50

D. 7×10 and 7×20



6) Which of these shows a complete fact family for 3, 7, and 21?

A. $3 \times 7 = 21$; $21 \div 3 = 7$

D. $3 \times 7 = 21$; $7 \times 3 = 21$; $21 \div 3 = 7$;

B. $7 - 3 = 4$; $21 \div 4 = 5$

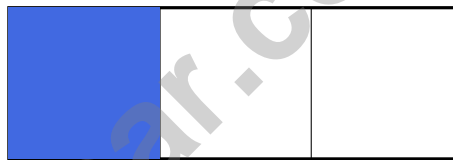
$21 \div 7 = 3$

C. $3 + 7 = 10$; $21 - 7 = 14$

7) A rectangular game board is 5 inches long and 4 inches wide. What is the area of the game board?



8) A rectangle is divided into 3 equal sections. One section is shaded.



What fraction is shaded?

A. $\frac{1}{3}$

C. $\frac{2}{3}$

B. $\frac{1}{2}$

D. $\frac{3}{3}$

9) Complete $\frac{2}{4} = \frac{?}{8}$.



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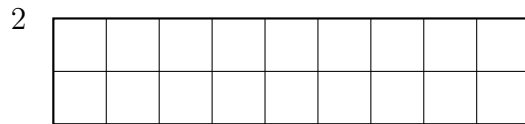
1) What is 916 rounded to the nearest 100?

A. 900

C. 916

B. 910

D. 1000



2)

9

A long hallway is covered with unit square tiles. What is the area?

A. 18

C. 16

B. 11

D. 92

3) An L-shaped patio is shown with parts having areas 32 sq units and 15 sq units. What is the total?

A. 17 sq units

C. 64 sq units

B. 47 sq units

D. 480 sq units

4) A bar graph shows students at events. Event A has 2 units, Event B has 5 units. Scale is 10 students per unit. How many students attended both events combined?

A. 50 students

C. 70 students

B. 60 students

D. 100 students

5) Which shows the distributive property for $4 \times (6 + 1)$?

A. $(4 \times 6) + (4 \times 1) = 24 + 4 = 28$

C. $(4 + 6) \times (4 + 1) = 10 \times 5 = 50$

B. $4 \times 7 = 28$

D. $(4 + 6) + (4 + 1) = 14$



Practice Test Answer Keys

How to use this section with a Grade 3 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** **(3.OA.A.3)** Area of a square = side \times side = $5 \times 5 = 25 \text{ cm}^2$.
- Choice C is correct.** **(3.NF.A.3)** The green dot is halfway between $\frac{1}{4}$ and $\frac{1}{2}$, so it is at $\frac{3}{8}$. This means $\frac{1}{4} < \frac{3}{8} < \frac{1}{2}$.
- Choice C is correct.** **(3.NF.A.3)** $\frac{3}{6}$ and $\frac{1}{2}$ both equal half of a whole.
- Choice A is correct.** **(3.NBT.A.2)** Ones: $8 + 5 = 13$ (write 3, carry 1). Tens: $1 + 7 + 1 = 9$. Hundreds: $2 + 1 = 3$. Answer: 393.
- Choice B is correct.** **(3.MD.C.5)** For a square with sides of 3 cm: $3 \times 3 = 9$ square centimeters.
- The correct answer is 4 equal sides.** **(3.G.A.1)** A rhombus is defined by having 4 equal sides. When that rhombus also has 4 right angles (like a rectangle), it meets the definition of a square. A square is the shape that has properties of BOTH a rhombus and a rectangle.
- Choice C is correct.** **(3.MD.C.5)** Count the rows: 5 rows. Count across: 6 tiles in each row. Total: $6 + 6 + 6 + 6 + 6 = 30$ unit square tiles are needed.
- Choice C is correct.** **(3.NF.A.2)** $\frac{3}{6} = \frac{1}{2}$ because both represent one-half of the ribbon.
- The correct answer is 9 pencils.** **(3.MD.B.4)** Add all X's: $2 + 1 + 3 + 2 + 1 = 9$ pencils total.
- Choice B is correct.** **(3.NF.A.1)** The unit fraction is $\frac{1}{3}$. The second tick is at two unit fractions: $2 \times \frac{1}{3} = \frac{2}{3}$.
- Choice C is correct.** **(3.MD.C.6)** The grid is 2 units wide and 4 units tall: $2 \times 4 = 8$ unit squares = 8 square units.
- Choice B is correct.** **(3.MD.C.7)** The grid has 4 columns and 5 rows. Area = $4 \times 5 = 20$ square inches. You can also add: $4 + 4 + 4 + 4 + 4 = 20$ (five rows of four).
- The correct answer is 10.** **(3.OA.D.8)** First divide: $96 \div 8 = 12$ stickers in each group. Then subtract the stickers used: $12 - 2 = 10$ stickers left in one group.
- Choice A is correct.** **(3.OA.A.4)** The fact family for 4, 9, and 36 has equations like $4 \times 9 = 36$ and $36 \div 9 = 4$. The equation $36 \div 6 = 6$ uses 6, not 4 or 9.
- Choice B is correct.** **(3.MD.A.2)** Subtract: $280 - 250 = 30 \text{ g}$.
- Choice C is correct.** **(3.NBT.A.1)** The ones digit is 6. Since $6 \geq 5$, round up: 816 rounds to 820.
- Choices A and C are correct.** **(3.G.A.2)** When numerator = denominator, the fraction always equals 1 whole. $(B) \frac{3}{1} = 3$, not 1. (D) and (E) are less than 1.
- Choice B is correct.** **(3.MD.C.5)** Add the areas: $21 + 18 = 39$ square units.
- Choice A is correct.** **(3.NF.A.3)** Ava ate $\frac{2}{3}$ and Lily ate $\frac{4}{6}$. These are equivalent: $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$.
- Choice C is correct.** **(3.MD.A.1)** The minute hand points to 48 (just before 10), and the hour hand is nearly at 2, meaning the hour is 1. The time is 1 : 48.
- Choice A is correct.** **(3.MD.C.7)** $(2 \times 6) + (2 \times 3) = 12 + 6 = 18$ or $2 \times (6 + 3) = 2 \times 9 = 18$.
- Choice B is correct.** **(3.MD.B.3)** Piano: $6 \times 2 = 12$. Guitar: $4 \times 2 = 8$. More: $12 - 8 = 4$.
- Choice A is correct.** **(3.NBT.A.3)** $70 \times 5 = 350$, the same as $5 \times 70 = 350$. The commutative property of multiplication says you can swap the factors and get the same product: $5 \times 7 \times 10 = 7 \times 5 \times 10 = 350$.
- Choice D is correct.** **(3.OA.B.6)** $30 \div 5 = \square$ means $\square \times 5 = 30$. Since $6 \times 5 = 30$, there are 6 cookies in each bag.
- Choice B is correct.** **(3.NF.A.1)** When a whole is divided into 3 equal pieces, each piece is $\frac{1}{3}$ (one-third).
- Choice B is correct.** **(3.NF.A.2)** $\frac{4}{8}$ and $\frac{2}{4}$ mark the exact same point: the middle of the line. They name the same location.
- Choice D is correct.** **(3.OA.B.5)** $4 \times 6 = 24$ and $4 \times 3 = 12$, so $24 + 12 = 36$. The distributive property shows $4 \times (6 + 3) = 4 \times 6 + 4 \times 3 = 36$.
- Choice D is correct.** **(3.OA.D.9)** Each number increases by 6. These are multiples of 6: $36 + 6 = 42$.
- Choice B is correct.** **(3.MD.D.8)** Area = length \times width = $6 \times 4 = 24$ square meters. Choice A (10) is the sum; C (20) is 4×5 miscomputation; D (12) is 6×2 .
- Choice A is correct.** **(3.G.A.2)** The circle is divided into 3 equal parts by lines from the center. The shaded part is one third of the circle.



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Hi, Math Champion!

◇ You trained hard! 8 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!

★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Coach

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



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Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

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