

5

Rhode Island

RIGAS

GRADE 3

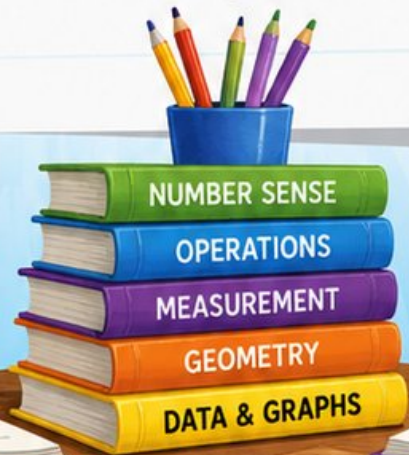
MATH

PRACTICE TESTS

Standards-Aligned Practice with Review, Answer Keys, and Explanations

$24 \div 3 = 8$

$125 + 37$



5 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED PRACTICE



DETAILED ANSWER KEYS



CLEAR EXPLANATIONS TO HELP YOU SUCCEED

# 5 Rhode Island RICAS Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

## To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Rhode Island RICAS. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Rhode Island has bay paths, harbor lights, ocean roads, and small spaces packed with smart details. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

### Notice

Circle key words, units, and numbers before you start.

### Build

Use arrays, number lines, equations, tables, or sketches.

### Verify

Ask, "Does this answer fit the question?"

**Five-checkpoint promise:** I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

# How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

**Best review habit:** Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



# What Is Inside?

Five complete practice tests with review support

| Part                | What You Do   | Why It Helps  |
|---------------------|---|---|
| Practice Tests 1–5  | Solve five different 30-question tests.                     | Build stamina and see many Grade 3 skills mixed together. |
| Answer Keys         | Check each answer in compact boxes.                         | Find mistakes quickly without losing your place.          |
| Explanations        | Read the reason behind each answer.                         | Turn missed items into a clear next step.                 |
| Standards Reference | See how Rhode Island Grade 3 standards connect to practice. | Understand the skills behind the questions.               |

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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& answers

# Table of Contents

|  |       |    |
|--|-------|----|
| ★ Practice Test 1                      | _____ | 15 |
| ★ Practice Test 2                      | _____ | 27 |
| ★ Practice Test 3                      | _____ | 39 |
| ★ Practice Test 4                      | _____ | 52 |
| ★ Practice Test 5                      | _____ | 64 |
| Practice Test Answer Keys              | _____ | 75 |
| Practice Test Answers and Explanations | _____ | 79 |

1) Complete:  $\square \times 8 = 56$ . Then write the related division fact.

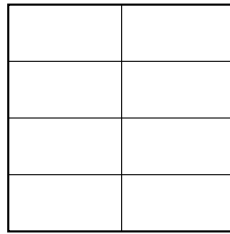
A.  $\square = 7$  and  $56 \div 8 = 7$

C.  $\square = 6$  and  $56 \div 6 = 8$

B.  $\square = 8$  and  $56 \div 7 = 8$

D.  $\square = 9$  and  $56 \div 9 = 8$

2) A square is divided into 8 equal parts by drawing 1 vertical line and 3 horizontal lines through the middle. What fraction of the square is one part?



A.  $\frac{1}{4}$   
 B.  $\frac{1}{8}$

C.  $\frac{2}{8}$   
 D.  $\frac{1}{2}$

3)

|              |   |    |    |    |
|--------------|---|----|----|----|
| Multiplier   | 1 | 2  | 3  | 4  |
| Product by 7 | 7 | 14 | 21 | 28 |

By how much does each product increase?

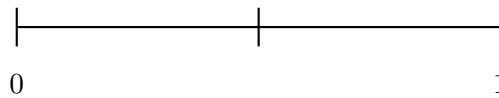
A. By 1

C. By 7

B. By 4

D. By 14

4) On a number line from 0 to 1 with 2 equal parts, what fraction is at the first tick mark?



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

C.  $\frac{1}{1}$   
 D.  $\frac{0}{2}$



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- 5) What is  $9 \times 40$ ? Show how you decompose the 40 and use place value to find your answer.

- 6) A rectangle has area  $6 \times (3 + 2)$ . Which calculation uses the distributive property correctly?

- A.  $6 \times 5 = 30$                        C.  $6 + 3 + 2 = 11$   
 B.  $(6 \times 3) + (6 \times 2) = 18 + 12 = 30$      D.  $(3 \times 2) + (6) = 12$

- 7) A rectangular tile is 7 inches long and 3 inches wide. How much area does one tile cover?

- A. 20 sq in                       C. 21 sq in  
 B. 28 sq in                       D. 10 sq in

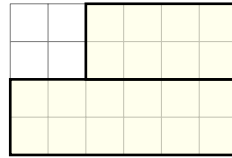
- 8) A square is covered by 6 rows of 6 unit squares. What is its area?

- 9) Which list shows unit fractions in order from smallest to largest?

- A.  $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$                        C.  $\frac{1}{4}, \frac{1}{8}, \frac{1}{2}$   
 B.  $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}$                        D.  $\frac{1}{8}, \frac{1}{2}, \frac{1}{4}$

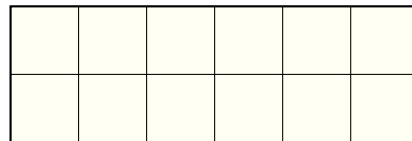


- 10) This grid shows a step-shaped figure made of unit squares. Count by breaking it into parts.



How many unit squares cover this step shape?

- A. 12 sq units                       C. 20 sq units  
 B. 16 sq units                       D. 24 sq units
- 11) A composite figure is divided into two parts. Part A is 8 units by 4 units. Part B is 6 units by 2 units. What is the total area?
- A. 44 sq units                       C. 32 sq units  
 B. 12 sq units                       D. 384 sq units
- 12) A rectangle is 10 units long and 2 units wide. What is its area?
- A. 20 sq units                       C. 30 sq units  
 B. 12 sq units                       D. 40 sq units



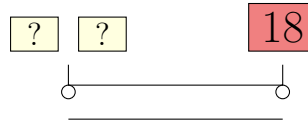
13)

How many unit squares are in this rectangle?



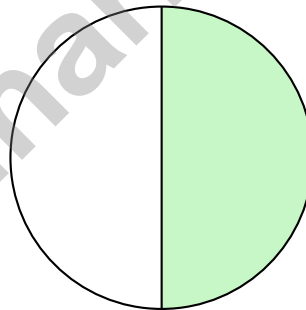
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- 1) A balance scale is in balance. One side has 2 equal boxes. The other side has a weight labeled 18. What is the weight of each box?



$$2 \times \square = 18$$

- A. 8
- B. 11
- C. 10
- D. 9
- 2) If a whole is divided into 4 equal parts, what is each part called?
- A. One-half
- B. One-third
- C. One-fourth
- D. One-eighth
- 3) Here is a circle divided into 2 equal parts.



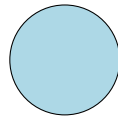
Each part of the circle is what fraction of the whole circle?

- A.  $\frac{1}{4}$
- B.  $\frac{1}{2}$
- C.  $\frac{2}{2}$
- D.  $\frac{1}{3}$

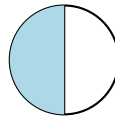


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4) Which circle shows 1 whole?



Circle A



Circle B

- A. Circle B  
 B. Both circles  
 C. Neither  
 D. Circle A

5) How many odd numbers are in the pattern 4, 8, 12, 16, 20, 24, 28? Explain why.

6) Two circles are identical. Circle X shows  $\frac{3}{4}$  shaded gray. Circle Y shows  $\frac{6}{8}$  shaded gray. Are the shaded parts the same size?

- A. They cannot be compared.  
 B. No, Circle Y is larger.  
 C. Yes, they are equal.  
 D. No, Circle X is larger.

7) A rectangle has opposite sides that are equal. How many pairs of equal sides does a rectangle have?

- A. 1 pair  
 B. 2 pairs  
 C. 3 pairs  
 D. 4 pairs





4) A painting is 4 inches long and 7 inches wide. What is its area?

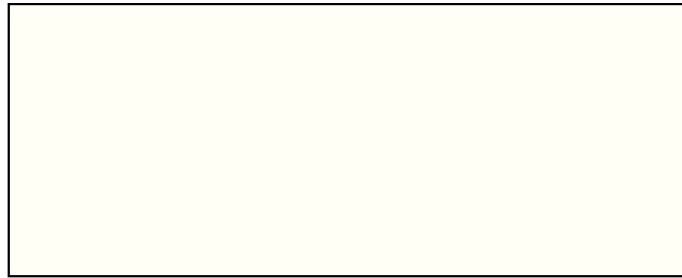
A. 11 sq in

C. 22 sq in

B. 28 sq in

D. 32 sq in

4 yards



10 yards

5)

A rectangular field measures 10 yards by 4 yards. Find the area.

6) Sam solved this problem:  $\square \times 8 = 56$ . He wrote the answer  $\square = 7$ . Is his answer correct?

A. Yes, because  $7 \times 8 = 56$ .

C. No, the correct answer is 8.

B. No, the correct answer is 6.

D. No, the correct answer is 9.



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## 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 A is correct.** **(3.OA.B.6)**  $7 \times 8 = 56$ , so the missing factor is 7. The related division is  $56 \div 8 = 7$ . Multiplication and division work together.
- Choice B is correct.** **(3.G.A.2)** When divided into 8 equal parts, each part is  $\frac{1}{8}$  of the whole square.
- Choice C is correct.** **(3.OA.D.9)** From 7 to 14 is +7; from 14 to 21 is +7; from 21 to 28 is +7.
- Choice B is correct.** **(3.NF.A.2)** The first tick mark on a number line divided into 2 equal parts is  $\frac{1}{2}$ .
- The correct answer is 360.** **(3.NBT.A.3)** Students should show that they break 40 into  $4 \times 10$ , multiply  $9 \times 4 = 36$  first, then multiply by 10 to get 360. Decomposition and place-value strategy are key.
- Choice B is correct.** **(3.MD.C.7c)** Use the distributive property: multiply 6 by each part, then add.
- Choice C is correct.** **(3.MD.C.7b)** Area = length  $\times$  width =  $7 \times 3 = 21$  square inches.
- The correct answer is 36 square units.** **(3.MD.C.5)** Count the square units by rows:  $6 \times 6 = 36$  square units.
- Choice B is correct.** **(3.NF.A.2a)** Larger denominators give smaller fractions.  $\frac{1}{8} < \frac{1}{4} < \frac{1}{2}$ .
- Choice C is correct.** **(3.MD.C.6)** Count bottom part:  $6 \times 2 = 12$  squares. Count top-right part:  $4 \times 2 = 8$  squares. Total:  $12 + 8 = 20$  unit squares.
- Choice A is correct.** **(3.MD.C.7d)** Part A:  $8 \times 4 = 32$  sq units. Part B:  $6 \times 2 = 12$  sq units. Total:  $32 + 12 = 44$  sq units.
- Choice A is correct.** **(3.MD.C.5b)**  $10 \times 2 = 20$  square units.
- The correct answer is 12 unit squares.** **(3.MD.C.5a)** The rectangle is 6 units wide and 2 units tall:  $6 \times 2 = 12$  unit squares.
- Choice C is correct.** **(3.NF.A.3c)**  $\frac{10}{2}$  means 10 halves. 2 halves make 1 whole, so  $10 \div 2 = 5$  wholes.
- Choice D is correct.** **(3.OA.B.5)** The associative property changes the grouping of the factors without changing their order. So  $(3 \times 4) \times 2 = 3 \times (4 \times 2) = 24$ .
- Choices A and C are correct.** **(3.OA.A.4)** Equations A and C belong to the same fact family because both use the numbers 5, 7, and 35. Choices B, D, and E use different numbers.
- Choice B is correct.** **(3.MD.C.7)** The grid has 10 columns and 3 rows. Area =  $10 \times 3 = 30$  square units. You can also add:  $10 + 10 + 10 = 30$  (three rows of ten).
- Choice B is correct.** **(3.NF.A.3a)** Pie A has  $\frac{1}{4}$  left. Pie B has  $\frac{2}{8}$  left. These are equivalent:  $\frac{1}{4} = \frac{2}{8}$ .
- Choice A is correct.** **(3.MD.A.2)** On Scale 1, the left side is 500 g and the right side is 400 g, so the left side weighs more. On Scale 2, both sides are equal.
- Choice D is correct.** **(3.OA.A.1)** The picture shows 3 columns with 4 rectangles in each column. So  $3 \times 4 = 12$  rectangles.
- Choice A is correct.** **(3.NF.A.3b)**  $\frac{1}{2} = \frac{4}{8}$  because  $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$ . Both Ava and Ben ate the same amount.
- Choice D is correct.** **(3.OA.A.2)**  $35 \div 7 = 5$ . The blocks are divided equally among the friends.
- Choice C is correct.** **(3.MD.A.1)**  $6 : 19 + 26 \text{ min} = 6 : 45 \text{ PM}$ .
- Choice B is correct.** **(3.MD.B.3)** First bar:  $4 \times 5 = 20$ . Second bar:  $2 \times 5 = 10$ . Difference:  $20 - 10 = 10$ .
- Choice A is correct.** **(3.NBT.A.2)** Add to find the total:  $312 + 188 = 500$ . Ones:  $2 + 8 = 10$  (write 0, carry 1). Tens:  $1 + 8 + 1 = 10$  (write 0, carry 1). Hundreds:  $3 + 1 + 1 = 5$ .
- Choice B is correct.** **(3.NF.A.3d)** CRITICAL: Fraction comparisons are ONLY valid when both fractions describe the same-size whole. Since pizza B is bigger than pizza A,  $\frac{1}{4}$  of the smaller pizza may actually be bigger than  $\frac{1}{6}$  of the larger pizza. We cannot compare them. Standard 3.NF.A.3.d requires recognizing that comparisons are valid only when the two fractions refer to the same whole.
- Choice D is correct.** **(3.OA.A.3)** Multiply: 5 tables  $\times$  6 chairs per table = 30 chairs.
- Choice A is correct.** **(3.OA.D.8)** First add:  $15 + 9 = 24$  cars. Then divide by 3 children:  $24 \div 3 = 8$  cars per child. Choice A correctly shows both steps with parentheses.
- Choice C is correct.** **(3.MD.B.4)** At  $7\frac{1}{2}$ , there are 3 X's. This is more than at any other length.



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## Hi, Brave Trail-Walker!

◇ You walked all 5 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

### Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

**Guide's tip:** on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Trail Guide

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## Excel in Grade 3 Math!

This book provides 5 full-length Grade 3 math practice tests that follow standards and help students achieve real results.



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Realistic tests to build stamina and familiarity.



### Standards-Aligned Practice

Questions match Grade 3 math standards and key skills.



### Answer Keys & Explanations

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- ✓ Geometry
- ✓ Perimeter, Area & Volume
- ✓ Time & Money
- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



Visit [testinar.com/math3](https://testinar.com/math3) for more Grade 3 math resources and practice materials!



$$\begin{array}{r} 7 \times 8 \\ \hline = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ -178 \\ \hline = 274 \end{array}$$



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