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# 10 Rhode Island RICAS



GRADE 3

MATH

PRACTICE TESTS

✓ Complete Standards Review

✓ Skill Practice

✓ Word Problems  
and Answer Key

$2 \times 7 + 4$



★ ★ ★  
PREPARE  
PRACTICE  
SUCCEED!  
★ ★ ★



Aligned to  
Grade 3 Math  
Standards



Build Confidence  
and Master  
Math Skills



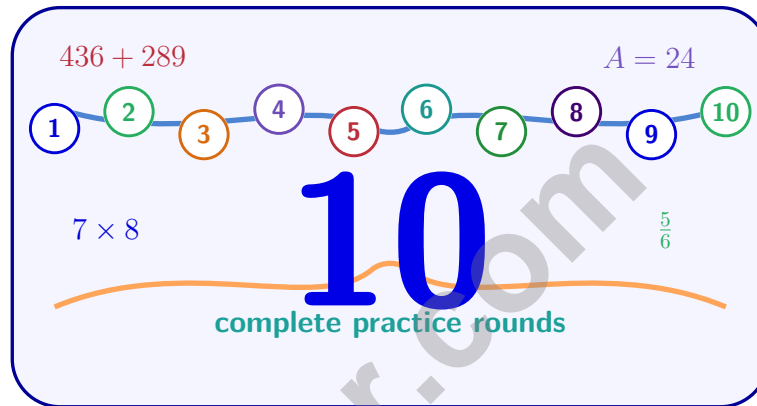
Test-Taking  
Practice for  
Success



Answer Key  
for Easy  
Review

# 10 Rhode Island RICAS Grade 3 Math Practice Tests

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



Ten complete 30-question Grade 3 practice rounds for RICAS, built around bay harbors, small-state focus, and neat answer checks, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Rhode Island Math Explorer!

Ten steady rounds on the Ocean State math route

This book gives you ten full Grade 3 practice tests for RICAS. Each round uses bay harbors, small-state focus, and neat answer checks to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Rhode Island Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

## How to Use This Book

A ten-session routine for Rhode Island RICAS review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Ocean State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Ten tests, 300 questions, and a full RICAS review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Rhode Island book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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& answers

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7)  $902 - 418 = ?$

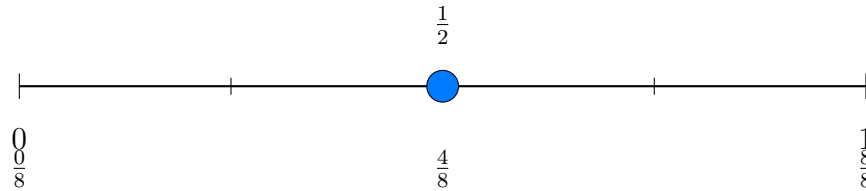
A. 484

C. 584

B. 494

D. 394

8) Select the equivalent fraction to  $\frac{4}{8}$  shown on the number line.



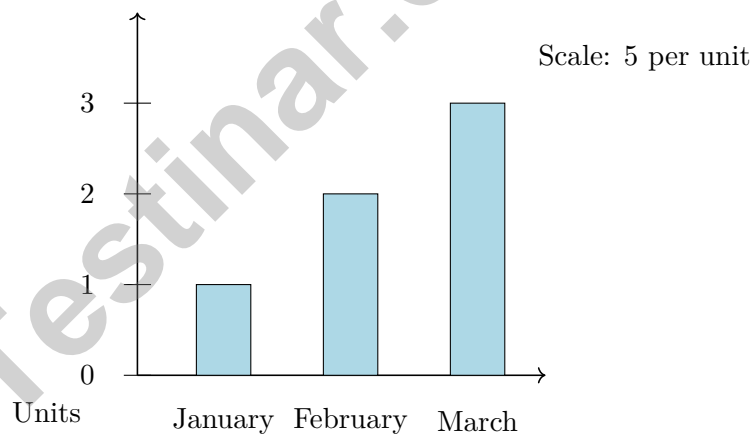
A.  $\frac{1}{3}$

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

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

D.  $\frac{3}{8}$

9) Look at the bar graph. Which statement about the bars is true?



A. March is the shortest bar.

C. March is the tallest bar.

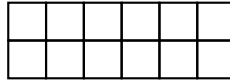
B. January is taller than February.

D. All bars are the same height.



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1) Look at this rectangular grid:



How many unit squares are in this shape?

- A. 8 unit squares
- B. 10 unit squares
- C. 12 unit squares
- D. 14 unit squares
- 2) Lily made 5 flower pots. She put 6 flowers in each pot. What is the total number of flowers?
- A. 11 flowers (adds  $5 + 6$ )
- B. 35 flowers (multiplies by wrong amount)
- C. 25 flowers (confuses:  $5 \times 5$  instead of  $5 \times 6$ )
- D. 30 flowers
- 3) How many halves make one whole?



- 4) Lily used  $\frac{1}{2}$  of her crayons. Sam used  $\frac{3}{6}$  of his crayons. Used the same fraction?
- A. Yes, they used the same fraction
- B. No, Lily used more
- C. No, Sam used more
- D. Cannot determine



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5) What number makes the equation true?

$$\square \times 5 = 35$$

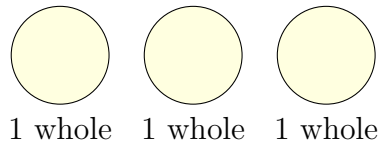
A. 9

C. 6

B. 8

D. 7

6) Jon has 3 whole pizzas. How can we write this as a fraction?



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

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

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

D.  $\frac{1}{1}$

7) A line plot shows book weights in ounces: 8,  $8\frac{1}{2}$ , 9,  $9\frac{1}{2}$ , 10. Count from the plot shows 1 X at 8 oz, 2 at  $8\frac{1}{2}$  oz, 3 at 9 oz, 2 at  $9\frac{1}{2}$  oz, and 2 at 10 oz. What is the range?

A. 1 ounce

C. 2 ounces

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

D.  $2\frac{1}{2}$  ounces

8)

$$\boxed{1 \text{ kg}} = \boxed{? \text{ g}}$$

Which measure is equal to 1 kilogram?

A. 500 g

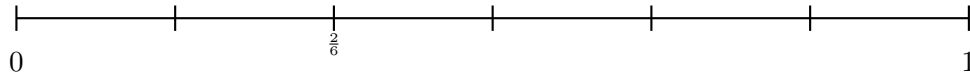
C. 1500 g

B. 1000 g

D. 2000 g



- 1) On a number line from 0 to 1 split into 6 equal parts, does the line show  $\frac{1}{3}$ ?



- A. Yes, it shows  $\frac{1}{3}$  at the first tick       D. No, because  $\frac{1}{3}$  is always between 0 and 1  
 B. Yes, it shows  $\frac{1}{3}$  at the second tick       C. No, because sixths and thirds are different  
 C. No, because sixths and thirds are different
- 2) There are 7 groups of students. Each group has 6 students. How many students are there in total?
- A. 13       C. 36  
 B. 48       D. 42
- 3) At what time does the hour hand and minute hand point straight up on a clock?
- A. 3 : 00       C. 9 : 00  
 B. 6 : 00       D. 12 : 00
- 4) Lily has 2 equal pieces of a sandwich. She eats 1 piece. What fraction did she eat?
- A.  $\frac{1}{4}$        C.  $\frac{1}{2}$   
 B.  $\frac{2}{3}$        D.  $\frac{1}{3}$
- 5) A teacher has 40 pencils. She gives them equally to 8 students. How many pencils does each student get?



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- 6) A composite shape breaks into three rectangles: one 5 units by 3 units, and two 2 units by 3 units each. What is the total area?
- A. 15 sq units                       C. 27 sq units  
 B. 6 sq units                          D. 90 sq units
- 7) Which number rounds to 400 when rounded to the nearest 100?
- A. 349                                       C. 449  
 B. 345                                       D. 451
- 8) Sofia buys packages of toy blocks. Each package has 20 blocks. She buys 6 packages. How many blocks does she have?
- A. 26                                         C. 120  
 B. 62                                         D. 200
- 9) Ben has 30 stickers. He puts them in piles of 10. How many piles does he make?
- A. 2     C. 4  
 B. 40                                          D. 3
- 10) Which missing-addend number sentence matches this situation? “Eli had 350 points. After losing some points, he has 127 points left. How many points did he lose?”
- A.  $127 + ? = 350$                        C.  $350 - 127 = 127$   
 B.  $350 + 127 = ?$                        D.  $? - 350 = 127$



## 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

- 1) **Choice D is correct.** **(3.NF.A.2)**  $\frac{2}{4} = \frac{3}{6} = \frac{1}{2}$ . Both mark the halfway point on their respective number lines.
- 2) **Choice B is correct.** **(3.OA.D.8)** Step 1: Add total students:  $15 + 15 = 30$  students. Step 2: Make groups:  $30 \div 5 = 6$  groups. (Choice D is step 1 only; choice A is incomplete.)
- 3) **Choice C is correct.** **(3.MD.D.8)** Visual grid: 4 wide  $\times$  5 tall = 20 square units.
- 4) **Choice D is correct.** **(3.OA.A.3)** Multiply: 5 shelves  $\times$  6 books per shelf = 30 books.
- 5) **Choice C is correct.** **(3.MD.C.6)** The rectangle is 2 units wide and 5 units tall:  $2 \times 5 = 10$  unit squares.
- 6) **The correct answer is  $\frac{1}{2}$ .** **(3.NF.A.3)**  $\frac{1}{2}$  is larger, so it is closer to 1.
- 7) **Choice A is correct.** **(3.NBT.A.2)** Ones:  $2 - 8$  requires regrouping, so  $12 - 8 = 4$ . Tens:  $9 - 1 = 8$  (after regrouping). Hundreds:  $8 - 4 = 4$ . Answer: 484.
- 8) **Choice C is correct.** **(3.NF.A.3)**  $\frac{4}{8}$  and  $\frac{1}{2}$  mark the same location on the number line.
- 9) **Choice C is correct.** **(3.MD.B.3)** January is 1 unit, February is 2 units, March is 3 units. March is tallest.
- 10) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 8. Since  $8 \geq 5$ , round up: 682 rounds to 700.
- 11) **The correct answer is 3.** **(3.NF.A.2)**  $\frac{3}{4}$  is the third tick from 0.
- 12) **Choice C is correct.** **(3.OA.B.5)** This is false.  $8 \times 6 = 48$  but  $7 \times 6 + 1 = 42 + 1 = 43$ . Option C does not follow any property.
- 13) **Choice D is correct.** **(3.MD.D.8)** Area = length  $\times$  width =  $10 \times 3 = 30$  square feet.
- 14) **Choice C is correct.** **(3.OA.D.9)** Add 6 each time:  $36 + 6 = 42$ . This is the pattern for multiples of 6.
- 15) **Choice A is correct.** **(3.G.A.1)** A rectangle has two pairs of parallel sides: the top and bottom sides are parallel, and the left and right sides are parallel to each other.
- 16) **Choice B is correct.** **(3.MD.C.5)** Multiply length by width:  $10 \times 4 = 40$  square feet.
- 17) **Choices A and B are correct.** **(3.NF.A.1)** Choice A is correct because every unit fraction has a numerator of 1. Choice B is correct because the denominator tells how many equal parts the whole is divided into. Choice C is false because unit fractions can be added together. Choice D is false because  $\frac{1}{8}$  is smaller than  $\frac{1}{2}$ . Choice E is false because the numerator of a unit fraction is always 1, not equal to the denominator.
- 18) **Choice D is correct.** **(3.OA.A.4)** Divide:  $32 \div 4 = 8$  columns. Check:  $4 \times 8 = 32$ .
- 19) **Choice D is correct.** **(3.OA.C.7)**  $63 \div 9 = 7$  because  $7 \times 9 = 63$ . This is related to the multiplication fact.
- 20) **Choice B is correct.** **(3.MD.C.7)** Adding the width 2 six times:  $2 + 2 + 2 + 2 + 2 + 2 = 12$ . This is the same as  $6 \times 2 = 12$  square units.
- 21) **Choice C is correct.** **(3.MD.C.6)** Count by rows:  $5 + 5 + 5 + 5 = 20$  unit squares. This is one way to count area.
- 22) **Choice A is correct.** **(3.MD.B.4)** The prompt tells us there is 1 note at  $2\frac{1}{2}$  beats.
- 23) **Choice B is correct.** **(3.MD.C.5)** The pink square is still one of the unit squares. The rectangle has  $4 \times 3 = 12$  distinct unit squares.
- 24) **Choice D is correct.** **(3.OA.B.6)**  $40 \div 5 = \square$  means  $\square \times 5 = 40$ . Since  $8 \times 5 = 40$ , the answer is 8.
- 25) **Choice A is correct.** **(3.MD.C.7)**  $9 \times (2 + 2) = 9 \times 4 = 36$ , and we can show this as two  $9 \times 2$  rectangles side by side.
- 26) **Choice C is correct.** **(3.MD.A.2)** Multiply:  $4 \times 250 = 1000$  mL.
- 27) **Choice C is correct.** **(3.MD.C.5)** One part:  $10 \times 2 = 20$  sq units. Other part:  $4 \times 3 = 12$  sq units. Total:  $20 + 12 = 32$  sq units.
- 28) **Choice D is correct.** **(3.OA.A.2)** This is a measurement division: How many groups of 5 fit in 25? Divide 25 by 5 to get 5 packs.
- 29) **The correct answer is 240.** **(3.NBT.A.3)**  $3 \times 8 = 24$ , then add one zero to get 240:  $3 \times 80 = 240$ .
- 30) **Choice B is correct.** **(3.G.A.2)**  $\frac{2}{3}$  of a rectangle with 3 equal parts means 2 parts are shaded.

### Practice Test 2 Answers and Explanations



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## Hi, Math Champion!

◇ You trained hard! 10 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!

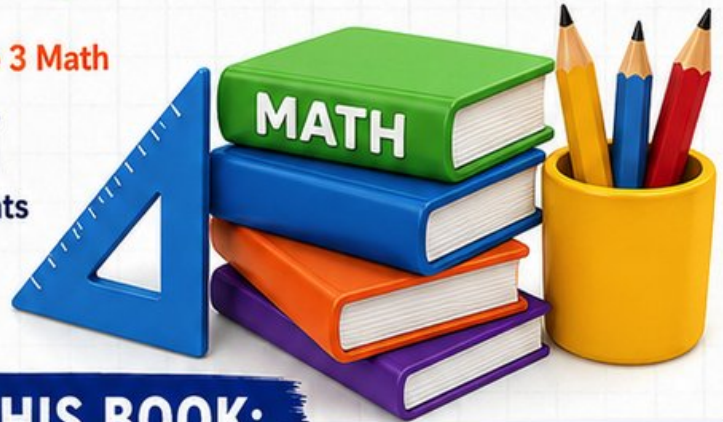
If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Coach

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