

# 6

# Rhode Island RICAS

## GRADE 3

# MATH

## PRACTICE TESTS

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



6 Full-Length  
Practice Tests



Detailed Answer Keys  
and Explanations



Master Skills.  
Boost Scores.  
Succeed!

# 6 Rhode Island RICAS Grade 3 Math Practice Tests

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



Six complete 30-question practice labs 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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# Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

## To the Grade 3 Math Builder

This book gives you six practice labs for the Rhode Island RICAS. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Rhode Island brings bay islands, harbor paths, shoreline maps, and small-town streets. Strong math uses that same care: read the task, select a strategy, build the solution, and use careful reading in a small space.

### Decode

Find the question, the units, and the useful numbers.

### Design

Use an equation, array, number line, graph, or sketch.

### Confirm

Make sure the answer matches the question.

**Six-lab promise:** I will work with patience, show useful thinking, and treat corrections as part of learning.

# How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Rhode Island students, each lab is a short route through bay islands, harbor paths, shoreline maps, and small-town streets: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

**Best review habit:** A mistake is most useful when you can say why it happened and what you will do differently next time.



# What Is Inside?

Six complete practice tests with review support

| Part                | What You Do   | Why It Helps   |
|---------------------|---|--|
| Practice Tests 1–6  | Solve six different 30-question tests.                      | Build stamina and see Grade 3 skills mixed together. |
| Answer Keys         | Check each answer in compact boxes.                         | Find mistakes quickly without losing your place.     |
| Explanations        | Read why each answer works.                                 | 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. This gives students practice with quick decisions, careful reading, and short written math answers for the Rhode Island RICAS path.



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1) Ava is decorating her bedroom wall with a rectangular poster. The poster is 11 inches wide and 9 inches tall. What is the area of the poster?

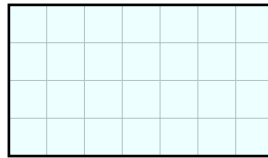
A. 99 sq in

C. 20 sq in

B. 40 sq in

D. 110 sq in

2) This shape is made of unit squares arranged in rows.



Count the total unit squares. What is the area?

A. 11 sq units

C. 22 sq units

B. 28 sq units

D. 35 sq units

3) What is  $7 \times 6$ ?

4) A number line from 0 to 1 has one tick mark in the middle. What is the unit fraction?

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

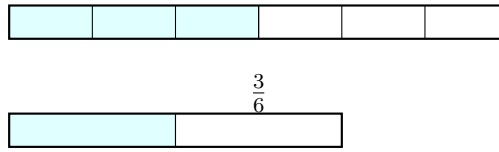
C.  $\frac{1}{4}$

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

D.  $\frac{1}{5}$



- 5) Find a fraction equivalent to  $\frac{3}{6}$ . Look at the bars.



?

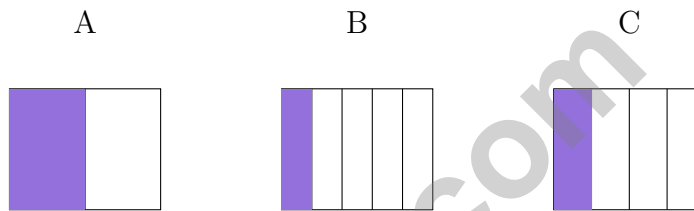
- A.  $\frac{2}{5}$ 
 C.  $\frac{1}{3}$   
 B.  $\frac{1}{2}$ 
 D.  $\frac{2}{6}$
- 6) Two shelves each have cookies. Shelf 1 has 3 piles of 4 cookies. Shelf 2 has 4 piles of 3 cookies. How many cookies on each shelf?
- A. Shelf 1 has more
  C. Both shelves have 7 cookies  
 B. Shelf 2 has more
  D. Both shelves have 12 cookies
- 7) Kai skip counts by 6: 6, 12, 18, 24, 30.  
Which number should come next?
- A. 32
  C. 36  
 B. 35
  D. 40
- 8) Which fraction is equivalent to  $\frac{2}{4}$ ?
- A.  $\frac{2}{3}$ 
 C.  $\frac{1}{2}$   
 B.  $\frac{3}{4}$ 
 D.  $\frac{2}{8}$



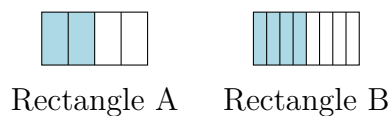
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- 9) A line plot shows book lengths in inches:  $7, 7\frac{1}{4}, 7\frac{1}{2}, 7\frac{3}{4}, 8$ . Measurements: 2 at 7 inches, 1 at  $7\frac{1}{4}$  inches, 4 at  $7\frac{1}{2}$  inches, 2 at  $7\frac{3}{4}$  inches, and 1 at 8 inches. What is the range of book lengths?

- 10) Which picture shows  $\frac{1}{4}$  shaded?



- A. Picture A                       C. Picture C  
 B. Picture B                       D. None of these
- 11) Sam draws a number line from 0 to 2 split into 8 equal parts. He marks  $\frac{4}{8}$  of the distance from 0 to 2. At what whole number is his mark?
- A. At 0                                       C. At 2  
 B. Between 1 and 2                       D. At 1
- 12) Which rectangle shows  $\frac{2}{4}$  and  $\frac{4}{8}$  as equivalent?



- A. Both rectangles                       C. Rectangle B only  
 B. Rectangle A only                       D. Neither rectangle

1) A baker makes cookies for a party. She has 40 cookies to put into boxes of 5. How many boxes does she need?

A. 6

C. 45

B. 7

D. 8

2) If  $7 \times 9 = 63$ , what is  $9 \times 7$ ?

3)  $\frac{1}{4} = \frac{2}{?}$ . What number goes in the box?

A. 4

C. 8

B. 6

D. 10

4) Diego found 6 anthills. Each anthill has 9 ants. How many ants did Diego find?

A. 72 ants

C. 15 ants

B. 48 ants

D. 54 ants

5) A picture graph shows coins saved. Each symbol is 5 coins. Ty saved 6 symbols, Kim saved 8 symbols. How many fewer coins does Ty have than Kim?

A. 2 coins

C. 15 coins

B. 10 coins

D. 30 coins



6) Find  $7 \times 9 + 5$ .

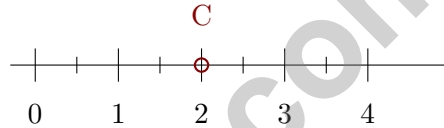
7) Sam divides a number line from 0 to 1 into 4 equal parts. How many parts are between 0 and the second tick mark?

A. 1

C. 3

B. 2

D. 4



8)

The number line from 0 to 4 is split into halves. Point  $C$  is at 2. How many halves is that?

A.  $\frac{4}{2}$

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

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

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



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- 1) Which situation can be solved using  $24 \div 6$ ?
- A. 24 cookies shared equally among 6 friends
- B. 6 items split between 24 people
- C. 24 times 6
- D. 24 plus 6
- 2) A rectangle is split into two parts with areas 35 and 21. Both parts share one dimension of length 7. What is the total area?
- A. 56
- B. 70
- C. 42
- D. 49
- 3) On a number line from 0 to 2 divided into fourths, how many fourths are there in total?
- 
- 4) A picture graph shows cookies eaten. Each star is 4 cookies. Zoe ate 6 stars and Jake ate 4 stars. How many fewer cookies did Jake eat?
- A. 2
- B. 8
- C. 12
- D. 24
- 5) A square rug has side length 5 meters. What is its area?
- A. 10 sq m
- B. 20 sq m
- C. 25 sq m
- D. 30 sq m



6) A rectangle's length is 12 cm. Its width is 3 cm. What is the perimeter?

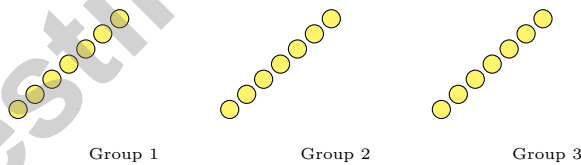
- A. 15 cm                       C. 30 cm  
 B. 36 cm                       D. 72 cm



7) 8 feet  
 A rectangular deck measures 8 feet by 3 feet. What is the area?

- A. 22 sq ft                       C. 11 sq ft  
 B. 48 sq ft                       D. 24 sq ft

8) A farmer has 3 groups of chickens with 7 chickens in each group. He sells 6 chickens. How many chickens does the farmer have left?



- A. 12                                   C. 21  
 B. 27                                   D. 15



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 & answers

## 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 A is correct.** **(3.MD.D.8)** Area = width  $\times$  height =  $11 \times 9 = 99$  square inches.
- 2) **Choice B is correct.** **(3.MD.C.6)** 7 columns  $\times$  4 rows = 28 unit squares.
- 3) **The correct answer is 42.** **(3.OA.C.7)**  $7 \times 6 = 42$ . Count by 6s: 6, 12, 18, 24, 30, 36, 42.
- 4) **Choice A is correct.** **(3.NF.A.1)** One mark in the middle divides into 2 equal parts, each  $\frac{1}{2}$ .
- 5) **Choice B is correct.** **(3.NF.A.3)** The shaded parts match.  $\frac{3}{6}$  and  $\frac{1}{2}$  are equivalent.
- 6) **Choice D is correct.** **(3.OA.B.5)** Shelf 1:  $3 \times 4 = 12$ . Shelf 2:  $4 \times 3 = 12$ . By the commutative property, both equal 12.
- 7) **Choice C is correct.** **(3.OA.D.9)** Add 6 each time:  $30 + 6 = 36$ . This is skip counting by 6.
- 8) **Choice C is correct.** **(3.NF.A.2)**  $\frac{2}{4}$  simplifies to  $\frac{1}{2}$ . They represent the same region: one-half.
- 9) **The correct answer is 1 inch.** **(3.MD.B.4)** Range = max - min =  $8 - 7 = 1$  inch.
- 10) **Choice C is correct.** **(3.NF.A.1)** Picture C shows a rectangle divided into 4 equal parts with 1 part shaded, which is  $\frac{1}{4}$ .
- 11) **Choice D is correct.** **(3.NF.A.2)**  $\frac{4}{8} = \frac{1}{2}$ . On a 0-to-2 line,  $\frac{1}{2}$  of the distance is at 1.
- 12) **Choice A is correct.** **(3.NF.A.3)** Rectangle A shows  $\frac{2}{4}$  (2 out of 4 parts) and Rectangle B shows  $\frac{4}{8}$  (4 out of 8 parts). Both represent the same amount, so  $\frac{2}{4} = \frac{4}{8}$ .
- 13) **Choice D is correct.** **(3.OA.A.1)** The array shows 2 columns and 5 rows of small squares. So  $2 \times 5 = 10$  or  $5 \times 2 = 10$ .
- 14) **Choice B is correct.** **(3.NF.A.3)** Two thirds (with thirds) covers more area than two fourths (with fourths). Larger pieces means larger total.
- 15) **Choices B and C are correct.** **(3.MD.A.2)** Choices B and C both equal 2000 mL. Choice A (2 kg) is mass, not volume. Choice D (2000 g) is mass. Choice E ( $750 + 750 = 1500$  mL) is less than 2000 mL.
- 16) **Choice A is correct.** **(3.NBT.A.1)** The ones digit is 4. Since  $4 < 5$ , round down: 734 rounds to 730.
- 17) **Choice D is correct.** **(3.OA.B.6)**  $32 \div 4 = \square$  means  $\square \times 4 = 32$ . Since  $8 \times 4 = 32$ , each box has 8 cars.
- 18) **Choice B is correct.** **(3.MD.C.7)**  $(4 \times 6) + (4 \times 2) = 24 + 8 = 32$ . Both rectangles share width 4, so the total width is  $6 + 2 = 8$ .
- 19) **Choice D is correct.** **(3.NF.A.2)** The line from 0 to 2 is cut into 4 equal steps, so each step is  $\frac{1}{2}$ . The third tick is  $1\frac{1}{2}$ .
- 20) **Choice D is correct.** **(3.NBT.A.3)**  $7 \times 30 = 210$  (multiply  $7 \times 3 = 21$ , then multiply by 10). Quinn wrote 7 and 30 together as 730 instead. The correct answer is 210.
- 21) **Choice A is correct.** **(3.NBT.A.2)** Add ones:  $5 + 8 = 13$  (write 3, carry 1). Add tens:  $4 + 1 + 1 = 6$ . Add hundreds:  $2 + 3 = 5$ . Answer: 563.
- 22) **Choice D is correct.** **(3.OA.A.3)** Multiply: 3 groups  $\times$  8 players per group = 24 players.
- 23) **Choice D is correct.** **(3.OA.A.4)** Divide:  $21 \div 3 = 7$  columns. Check:  $3 \times 7 = 21$ .
- 24) **Choice C is correct.** **(3.MD.C.6)** A  $6 \times 2$  arrangement of unit squares has area  $6 \times 2 = 12$  square units.
- 25) **Choice B is correct.** **(3.MD.C.5)** Bottom:  $7 \times 3 = 21$  sq ft. Top:  $3 \times 2 = 6$  sq ft. Total:  $21 + 6 = 27$  sq ft.
- 26) **The correct answer is 4 right angles.** **(3.G.A.1)** A square has 4 right angles.
- 27) **Choice B is correct.** **(3.G.A.2)** Two shaded parts out of eight equal parts is  $\frac{2}{8}$ .
- 28) **Choice A is correct.** **(3.OA.D.8)** Step 1: Subtract:  $35 - 5 = 30$  apples. Step 2: Divide:  $30 \div 6 = 5$  apples per friend. (Choice D is step 1 only.)
- 29) **Choice B is correct.** **(3.MD.C.7)** The diagram shows length 4 and width 3. Area =  $4 \times 3 = 12$  square units. You can also add:  $3 + 3 + 3 + 3 = 12$  (four rows of three).
- 30) **Choice A is correct.** **(3.OA.A.2)**  $8 \div 2 = 4$ . The picture shows 8 items split into 2 equal groups of 4 each.

### Practice Test 2 Answers and Explanations



## Hi, Math Champion!

◇ You trained hard! 6 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

# BUILD CONFIDENCE. MASTER MATH. ACHIEVE SUCCESS!



This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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