

7

Rhode Island

RICAS

Grade 3 MATH

PRACTICE TESTS

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



7 Full-Length
Practice Tests



Standards-Aligned
Math Practice



Detailed Answer Keys
and Explanations



Build Confidence.
Achieve Success.

PREPARE
PRACTICE
SUCCEED



$4 \times 6 = 24$



7 Rhode Island RICAS Grade 3 Math Practice Tests

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



Seven complete 30-question practice trails 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 Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Rhode Island RICAS. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

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.

Scout

Find what the problem is asking before you calculate.

Solve

Pick an equation, model, array, graph, or number line.

Prove

Check the answer and explain the thinking clearly.

Seven-trail promise: I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

How to Use This Book

A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Rhode Island students, each trail moves through bay islands, harbor paths, shoreline maps, small-town streets, and focused classrooms: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

Best review habit: A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
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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& answers

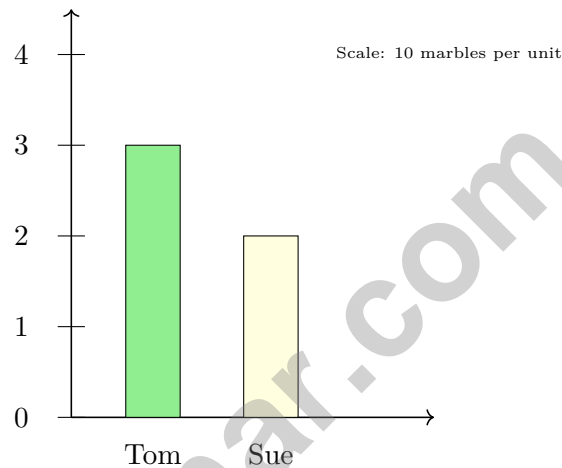
Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	26
★ Practice Test 3	_____	40
★ Practice Test 4	_____	53
★ Practice Test 5	_____	66
★ Practice Test 6	_____	78
★ Practice Test 7	_____	91
Practice Test Answer Keys	_____	102
Practice Test Answers and Explanations	_____	107

1) Lily starts playing at 2 : 18 PM. She plays for 44 minutes. What time does Lily stop playing?

- A. 3 : 00 PM C. 3 : 12 PM
 B. 3 : 02 PM D. 2 : 58 PM

2) A bar graph shows marbles. The scale is 10 marbles per unit. Read the bars and find how many more marbles one person has.



- A. Tom has 10 more marbles. C. Sue has 10 more marbles.
 B. Tom has 20 more marbles. D. They have the same number.

3) Ben marks the location of $\frac{5}{6}$ on a number line from 0 to 1 divided into 6 equal parts. Which statement is TRUE?

- A. $\frac{5}{6}$ is 1 tick away from 1 C. $\frac{5}{6}$ is closer to 0 than to 1
 B. $\frac{5}{6}$ is 5 ticks away from 0 D. $\frac{5}{6}$ is at the 6th tick



4) Which number rounds to 500 when rounded to the nearest 100?

A. 449

C. 550

B. 560

D. 460

5) Which expanded number sentence uses the distributive property?

A. $2 \times (6 + 4) = 2 \times 6 + 4 = 16$

D. $2 \times (6 + 4) = 2 \times 6 + 2 \times 4 = 12 + 8 =$

B. Neither is correct

20

C. $2 \times (6 + 4) = 2 + 6 + 4 = 12$

6) Is every square also a rectangle?

A. Yes, because a square has 4 sides and 4 right angles

C. No, because a square has more sides

D. Yes, only if it is very large

B. No, because a square has equal sides

7) A school buys 9 boxes of crayons. They use 4 boxes in art class. Each remaining box has 10 crayons. How many crayons are left unused?

A. 40

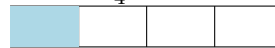
C. 60

B. 50

D. 90

8) Two children have identical juice bottles. Ava drinks $\frac{1}{4}$ of hers. Ben drinks $\frac{2}{8}$ of his. Who drank more juice?

Ava: $\frac{1}{4}$ of bottle



Ben: $\frac{2}{8}$ of bottle

A. It depends on bottle size.

C. Ben drank more.

B. They drank the same amount.

D. Ava drank more.



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9) Noah has $\frac{12}{2}$ sheets of paper. How many whole sheets does he have?

10) Noah has a rectangular piece of paper. It is 9 inches long and 2 inches wide. If he covers it with 1-inch by 1-inch unit squares, how many will he need?

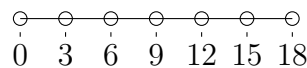
- | | |
|---|---|
| <input type="checkbox"/> A. 11 unit squares | <input type="checkbox"/> C. 18 unit squares |
| <input type="checkbox"/> B. 14 unit squares | <input type="checkbox"/> D. 20 unit squares |

11) A rectangle is covered by 6 unit squares in each row and has 4 rows. What is its area?

12) A rectangle has a length of 5 meters and a width of 2 meters. Find the area.

- | | |
|--|--|
| <input type="checkbox"/> A. 7 sq meters | <input type="checkbox"/> C. 14 sq meters |
| <input type="checkbox"/> B. 10 sq meters | <input type="checkbox"/> D. 25 sq meters |

13)



This number line shows skip counting. Which multiplication sentence matches?

- | | |
|---|---|
| <input type="checkbox"/> A. $3 \times 9 = 27$ | <input type="checkbox"/> C. $5 \times 3 = 15$ |
| <input type="checkbox"/> B. $3 \times 5 = 15$ | <input type="checkbox"/> D. $6 \times 3 = 18$ |

1) A garden is 7 feet long and 5 feet wide. What is its area?

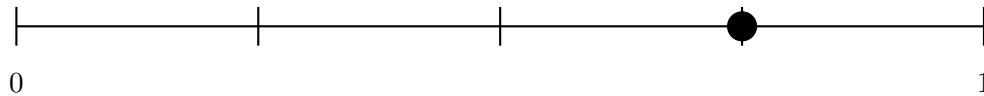
A. 12 sq ft

C. 24 sq ft

B. 35 sq ft

D. 70 sq ft

2) On a number line, the point is at $\frac{3}{4}$ of the way from 0 to 1. If the line is divided into 4 equal parts, at which tick mark is the point?



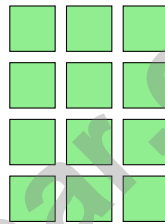
A. First tick mark

C. Third tick mark

B. Second tick mark

D. Fourth tick mark

3)



What is the product shown by this array?

A. 15

C. 9

B. 7

D. 12

4) Which pair of rectangles can be tiled to show $5 \times (7 + 2) = (5 \times 7) + (5 \times 2)$?

A. One 5×7 and one 5×2

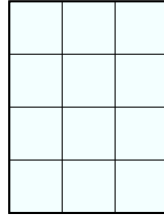
C. One 5×9 and one 5×2

B. One 7×5 and one 7×2

D. One 7×4 and one 2×5



- 1) Ben counts unit squares to find the area of a shape. He counts 12 unit squares. What is the area?



- A. 6 square units C. 12 square units
 B. 10 square units D. 24 square units
- 2) A bar graph shows games played. Soccer bar is 3 units, basketball bar is 4 units, tag bar is 2 units. Each unit is 5 games. How many total games were played?
- A. 45 C. 55
 B. 50 D. 60
- 3) Look at this addition: $265 + 218 = 475$. Is this correct or incorrect?
- A. Correct C. Incorrect; the answer should be 473
 B. Incorrect; the answer should be 485 D. Incorrect; the answer should be 483
- 4) What is $72 \div 8$?
- A. 8 C. 10
 B. 9 D. 64
- 5) A circle is divided into 3 equal slices. One slice is one unit fraction. Which fraction name is correct?
- A. $\frac{1}{2}$ C. $\frac{3}{3}$
 B. $\frac{1}{3}$ D. $\frac{2}{3}$



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& answers

6) A square has an area of 25 square inches. How long is each side?

- A. 5 inches C. 6 inches
 B. 4 inches D. 12 inches

7) What is 586 rounded to the nearest 100?

- A. 500 C. 586
 B. 580 D. 600

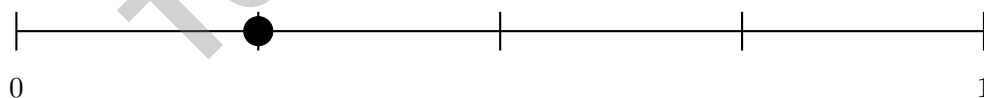
8)

Container	Volume
Bottle	750 mL
Jug	2 L
Glass	250 mL
Cup	200 mL

Which container holds the most liquid?

- A. Bottle C. Glass
 B. Jug D. Cup

9) A number line shows the distance from 0 to 1 split into 4 equal parts. Where is $\frac{1}{4}$ located?



- A. At the first tick mark C. At the third tick mark
 B. At the second tick mark D. At the fourth tick mark



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 B is correct.** **(3.MD.A.1)** $2 : 18 + 44 \text{ min} = 2 : 18 + 42 \text{ min} + 2 \text{ min} = 3 : 00 + 2 \text{ min} = 3 : 02 \text{ PM}$.
- 2) **Choice A is correct.** **(3.MD.B.3)** Tom: $3 \times 10 = 30$. Sue: $2 \times 10 = 20$. Difference: $30 - 20 = 10$.
- 3) **Choice B is correct.** **(3.NF.A.2)** $\frac{5}{6}$ means $5 \times \frac{1}{6}$, so there are 5 equal steps from 0. Distractor A: distance to 1 is $\frac{1}{6}$, which is 1 part, not 1 tick per se (ambiguous). Distractor C: false; $\frac{5}{6}$ is much closer to 1. Distractor D: false; it is at the 5th tick.
- 4) **Choice D is correct.** **(3.NBT.A.1)** Numbers from 450 to 549 round to 500. The number 460 has tens digit $6 \geq 5$, so it rounds up to 500.
- 5) **Choice D is correct.** **(3.OA.B.5)** The distributive property multiplies 2 by each addend: $2 \times 6 + 2 \times 4 = 12 + 8 = 20$.
- 6) **Choice A is correct.** **(3.G.A.1)** A square is a special kind of rectangle that also has all sides equal. Every square has the properties of a rectangle (4 sides, 4 right angles), so every square is a rectangle.
- 7) **Choice B is correct.** **(3.OA.D.8)** Step 1: Remaining boxes: $9 - 4 = 5$ boxes. Step 2: Crayons in remaining boxes: $5 \times 10 = 50$ crayons. (Choice C is the answer to step 1 multiplied by 12; choice D is step 1 error times 10.)
- 8) **Choice B is correct.** **(3.NF.A.2)** $\frac{1}{4} = \frac{2}{8}$. Both represent one-quarter of the bottle (see the shaded regions are equal).
- 9) **The correct answer is 6.** **(3.G.A.2)** $\frac{12}{2}$ means 12 halves. 2 halves make 1 whole, so $12 \div 2 = 6$ wholes.
- 10) **Choice C is correct.** **(3.MD.C.6)** Area = $9 \text{ in} \times 2 \text{ in} = 18$ square inches = 18 unit squares.
- 11) **The correct answer is 24 square units.** **(3.MD.C.5)** The rectangle has 4 rows of 6 unit squares. $4 \times 6 = 24$ square units.
- 12) **Choice B is correct.** **(3.MD.C.7)** Area = $5 \times 2 = 10$ square meters. This is 5 rows of 2 unit squares (or $2+2+2+2+2 = 10$).
- 13) **Choice D is correct.** **(3.OA.A.1)** Skip counting by 3 six times gives 0, 3, 6, 9, 12, 15, 18. This represents 6 groups of 3, so $6 \times 3 = 18$.
- 14) **Choice C is correct.** **(3.OA.C.7)** 6 baskets with 7 apples each: $6 \times 7 = 42$.
- 15) **Choice D is correct.** **(3.OA.A.4)** The fact family uses the numbers 3, 9, and 27. The equation $27 \div 6 = 4$ uses 6, which is not in this fact family.
- 16) **Choice A is correct.** **(3.OA.A.2)** If $3 \times 6 = 18$, then the related division facts are $18 \div 3 = 6$ and $18 \div 6 = 3$.
- 17) **Choices A and C are correct.** **(3.MD.C.5)** A is correct: multiply to find the first rectangle's area. C is correct: add the areas of all rectangles to get the total. B demonstrates the computation but C shows the critical additive step. D is wrong (do not multiply all dimensions together). E is wrong (rectangles can be any size as long as they don't overlap; the additive principle still holds).
- 18) **Choice A is correct.** **(3.NBT.A.2)** Using "make a friendly number," rewrite 298 as $300 - 2$. Then: $(300 - 2) + 145 = 300 + 145 - 2 = 445 - 2 = 443$. This avoids regrouping in ones. Distractors show other valid decompositions but miss the "friendly number" goal.
- 19) **Choice C is correct.** **(3.G.A.2)** Rectangle X: $\frac{2}{4}$ shaded is half. Rectangle Y: $\frac{4}{8}$ shaded is also half. Even though one has 4 parts and the other has 8 parts, the same amount of area is shaded in both rectangles.
- 20) **Choice A is correct.** **(3.OA.B.6)** This problem requires division: $24 \div 8 = \square$. We use the unknown-factor strategy: $\square \times 8 = 24$. The multiplication fact $8 \times 3 = 24$ tells us each student gets 3 crayons. We find the missing factor using multiplication.
- 21) **Choice B is correct.** **(3.NF.A.1)** Option B has equal spacing. Option A is unequal; distances differ.
- 22) **Choice A is correct.** **(3.NF.A.3)** Both bars show the same amount shaded. $\frac{1}{2}$ and $\frac{2}{4}$ are equal.
- 23) **Choice A is correct.** **(3.MD.C.6)** $4 \times 4 = 16$ sq in. The other choices do not equal 16.
- 24) **Choice D is correct.** **(3.OA.A.3)** There are 5 equal groups of 4 coins. Multiply: $5 \times 4 = 20$ coins.
- 25) **The correct answer is 210.** **(3.NBT.A.3)** 7 packs of 30 stickers = $7 \times 30 = 210$ stickers. Multiply $7 \times 3 = 21$, then add one zero.
- 26) **Choice A is correct.** **(3.MD.C.7)** The distributive property breaks 5 into $2 + 3$ and multiplies 7 by each part.
- 27) **Choice A is correct.** **(3.MD.C.5)** Rectangle 1: 3 columns and 4 rows = $3 + 3 + 3 + 3 = 12$ unit squares. Rectangle 2: 6 columns and 2 rows = $6 + 6 = 12$ unit squares. Rectangle 3: 5 columns and 3 rows = $5 + 5 + 5 = 15$ unit squares. Rectangles 1 and 2 both have an area of 12 square units.



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Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 7 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.

Jay Daie

Your Math Trail Guide

PRACTICE TODAY. MASTER TOMORROW.

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

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
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