

3

Rhode Island

RICAS

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED

$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



3 Rhode Island RICAS Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, Rhode Island RICAS strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome, Rhode Island Math Explorer!

Three steady rounds on the Ocean State math route

This book gives you three 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	Stamina rounds for mixed review, neat work, and flexible strategies.
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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1) Which fraction is in simplest form and equivalent to $\frac{6}{8}$?

A. $\frac{3}{4}$

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

C. $\frac{4}{5}$

D. $\frac{5}{6}$

2) The space inside an angle is called:

 A. the exterior B. the arc C. the interior D. the vertex

3) $\frac{4}{5}$ can be written as the sum of four unit fractions:

A. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

B. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

C. $\frac{1}{5} + \frac{2}{5} + \frac{1}{5} + \frac{1}{5}$

D. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{2}{5}$

4) A rectangular field has a perimeter of 80 meters. The length is 25 meters. What is the width?

 A. 10 m B. 15 m C. 20 m D. 55 m

5) In the number 352,679, what is the value of the digit in the ten-thousands place?

 A. 5 B. 5,000 C. 50,000 D. 500,000

6) Which equation shows a correct use of the standard algorithm for 23×18 ?

A. $23 \times 1 + 23 \times 8 = 23 + 184 = 207$

B. $(23 \times 10) + (23 \times 8) = 230 + 184 = 314$

C. $(2 \times 8) + (3 \times 8) = 16 + 24 = 40$

D. $(23 \times 8) + (23 \times 10) = 184 + 230 = 414$



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7) Find $\frac{5}{7} + \frac{3}{7}$ as a mixed number.

8) Find $3\frac{2}{4} + 1\frac{3}{4}$.

9) A rope is 12 feet long. How many yards is this?

A. 2

C. 4

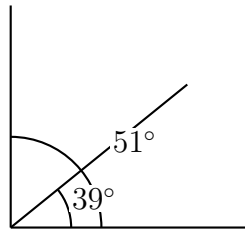
B. 3

D. 6

10) How many 30° angles are needed to make a complete turn around a circle?



- 11) Two pieces of ribbon are arranged at a vertex. The first ribbon makes an angle of 39° and the second makes an angle of 51° . Together, what angle do the ribbons form?



- A. 90°
 C. 39°
 B. 51°
 D. 130°
- 12) Which fraction is closest to 1?
- A. $\frac{9}{10}$
 C. $\frac{5}{6}$
 B. $\frac{7}{8}$
 D. $\frac{3}{4}$
- 13) What does $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$ equal?
- A. $\frac{9}{9}$
 C. $\frac{1}{9}$
 B. $\frac{9}{12}$
 D. $\frac{3}{12}$
- 14) Look at the place-value chart. Which digit, when moved to the thousands place, would have a value of 5,000?

Thousands	Hundreds	Tens	Ones
2	5	7	9

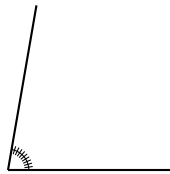
- A. The 2
 C. The 7
 B. The 9
 D. The 5



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- 1) A library had 15,000 books. After a donation, they received 4,567 more books. How many books does the library have now?

2)



The angle is marked from 0° to 80° . What is the angle measure?

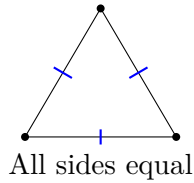
- A. 80° C. 79°
 B. 81° D. 160°
- 3) This place-value chart represents a number. Write the expanded form:

Thousands	Hundreds	Tens	Ones
9	0	4	2

- A. $9,000 + 400 + 2$ C. $9 + 0 + 4 + 2$
 B. $90,000 + 400 + 20$ D. $9,000 + 40 + 2$



- 4) Look at this triangle with all three sides marked as equal with tick marks. What type of triangle is it?



- A. Scalene triangle
- B. Isosceles triangle
- C. Equilateral triangle
- D. Right triangle
- 5) Which pair of measurements is equivalent?
- A. 2 km and 200 m
- B. 4 m and 4,000 cm
- C. 5 cm and 50 mm
- D. 6 m and 600 mm
- 6) What is $2,156 \div 2$?
- A. 1,078
- B. 1,068
- C. 1,088
- D. 1,058
- 7) The rule is “add 7.” If the first term is 5, what is the third term?
- A. 12
- B. 26
- C. 22
- D. 19
- 8) What is 19×22 ?
- A. 418
- B. 380
- C. 392
- D. 456



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1) Which addition is correct?

A. $5,234 + 3,456 = 8,690$

C. $5,234 + 3,456 = 8,780$

B. $5,234 + 3,456 = 8,590$

D. $5,234 + 3,456 = 9,690$

2) A bead weighs $\frac{1}{10}$ gram. How much do 9 beads weigh?

A. $\frac{1}{90}$ gram

C. $\frac{10}{9}$ grams

B. $\frac{9}{10}$ grams

D. $\frac{9}{90}$ gram

3) A gear rotates $\frac{7}{12}$ of a full turn, then rotates an additional $\frac{1}{12}$ turn. What is the total rotation in degrees?

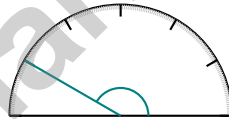
A. 180°

C. 240°

B. 210°

D. 270°

4)



Which angle classification fits the angle shown above?

A. Acute

C. Obtuse

B. Right

D. Straight

5) Mia says the angle she drew contains 92 one-degree angles. What is the measure of her angle?

A. 92°

C. 184°

B. 46°

D. 9.2°

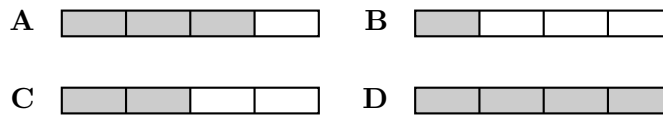


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6) If you move the digit 4 from the tens place to the thousands place, how many times greater does its value become?

- A. 10 times C. 1,000 times
 B. 2 times D. 100 times

7) Which picture shows $3 \times \frac{1}{4}$?

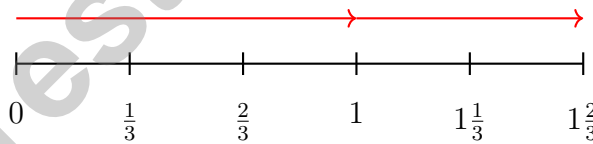


- A. Picture A C. Picture C
 B. Picture B D. Picture D

8) A bag of sugar weighs 25 ounces. A bag of flour weighs 32 ounces. How much more does the flour weigh?

- A. 7 ounces C. 25 ounces
 B. 57 ounces D. 32 ounces

9) How is $\frac{5}{3}$ decomposed on this number line?



- A. $\frac{2}{3} + \frac{1}{3}$ C. $\frac{5}{3} + 0$
 B. $\frac{3}{3} + \frac{2}{3}$ D. $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

Practice Test Answer Keys

How to use this section with a Grade 4 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.** (4.NF.A.1) To simplify, divide both top and bottom by the same number. Here, divide by 2: $\frac{6}{8} = \frac{6 \div 2}{8 \div 2} = \frac{3}{4}$. This gives you fewer, bigger pieces.
- Choice C is correct.** (4.MD.C.5) The interior of an angle is the space inside, between the two rays.
- Choice A is correct.** (4.NF.B.3) A unit fraction always has a numerator of 1. Four copies of $\frac{1}{5}$: $1 + 1 + 1 + 1 = 4$, giving us $\frac{4}{5}$ ✓.
- Choice B is correct.** (4.MD.A.3) Using $P = 2\ell + 2w = 80$ with $\ell = 25$: $2(25) + 2w = 80$. Simplify: $50 + 2w = 80$, so $2w = 30$, thus $w = 15$ m.
- Choice C is correct.** (4.NBT.A.2) The ten-thousands place contains the digit 5. Its value: $5 \times 10,000 = 50,000$ ✓
- Choice D is correct.** (4.NBT.B.5) The standard algorithm breaks the multiplier by place value: $(23 \times 8) + (23 \times 10) = 184 + 230 = 414$.
- The correct answer is $1\frac{1}{7}$.** (4.NF.B.3) Add the fractions: $\frac{5}{7} + \frac{3}{7} = \frac{8}{7}$. Convert to a mixed number: $1\frac{1}{7}$.
- The correct answer is $5\frac{1}{4}$.** (4.NF.B.3) Add the wholes: $3 + 1 = 4$. Add the fractions: $\frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$. Combine: $4 + 1\frac{1}{4} = 5\frac{1}{4}$.
- Choice C is correct.** (4.MD.A.1) Since 1 yard = 3 feet, divide: $12 \div 3 = 4$ yards. The answer is 4 yards.
- The correct answer is 12.** (4.MD.C.5) Divide the full circle by 30 degrees: $360^\circ \div 30^\circ = 12$ angles needed.
- Choice A is correct.** (4.MD.C.7) The two ribbons meet at a vertex and form an angle. Add them: $39^\circ + 51^\circ = 90^\circ$.
- Choice A is correct.** (4.NF.A.1) Find common denominator 120: $\frac{9}{10} = \frac{108}{120}$, $\frac{7}{8} = \frac{105}{120}$, $\frac{5}{6} = \frac{100}{120}$, $\frac{3}{4} = \frac{90}{120}$. Since 108 is closest to 120, $\frac{9}{10}$ is closest to 1.
- Choice B is correct.** (4.NF.B.3) We have 9 unit fractions of $\frac{1}{12}$. Counting them: 9 pieces, each $\frac{1}{12}$, so the sum is $\frac{9}{12}$.
- Choice D is correct.** (4.NBT.A.1) From the chart, the digit 5 is in the hundreds place. If moved to the thousands place, its value becomes $5 \times 1,000 = 5,000$. Answer: The 5. ✓
- Choice A is correct.** (4.G.A.2) Both a square and a rhombus have four equal sides in length. However, a square must have all right angles at each corner, while a rhombus does not have to have any right angles. The answer is A.
- Choice C is correct.** (4.MD.A.2) The cafeteria used 6 gallons on Monday and 8 gallons on Tuesday. Add them: $6 + 8 = 14$ gallons. They used 14 gallons in total.
- The correct answer is A, C.** (4.MD.B.4) A is correct: $\frac{2}{4}$ in has 3 X marks. C is correct: $\frac{3}{4}$ in has 3 X marks. Statement B is false: only 1 ribbon measured $\frac{1}{4}$ in. Statement D is false: the range is $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$, not $\frac{3}{4}$. Statement E is false: the total is 7 ribbons, not 8.
- Choice B is correct.** (4.MD.C.5) This obtuse angle measures 135° , which is 135 one-degree angles.
- Choice A is correct.** (4.NBT.B.4) Marcus spends money from his total, so we subtract. $6,200 - 2,345 = 3,855$ dollars.
- Choice D is correct.** (4.OA.A.2) Working backwards. The brother has 24 marbles, which is 3 times Grace's amount, so $3 \times ? = 24$. Divide to find Grace's amount: $24 \div 3 = 8$ marbles.
- Choice D is correct.** (4.OA.A.3) Two parts! First: $144 \div 12 = 12$ full crates. Then the 9 extra toys won't fill a crate but still need one—so we round up: $12 + 1 = 13$ crates total.
- Choice D is correct.** (4.OA.B.4) The pattern repeats every 3 items, like a wheel turning around. To find position 7, divide: $7 \div 3 = 2$ remainder 1. The remainder 1 tells us we land on the 1st item in the cycle, which is **apple**. Quick check: positions 1, 4, 7 all land on apple. ✓
- Choice D is correct.** (4.OA.B.4) Factors are numbers that divide evenly with no remainder. Walk through the factor pairs: 1×12 , 2×6 , 3×4 . Listing every factor: 1, 2, 3, 4, 6, 12. Tip: pair them up as you go—it makes sure you don't miss any!
- Choice D is correct.** (4.G.A.3) A regular triangle means an equilateral triangle with three equal sides and angles. Three fold lines (each from a corner to the middle of the opposite side) create balance. The answer is 3 lines of symmetry.
- Choice A is correct.** (4.NF.B.4) Noah walks $\frac{2}{8}$ mile per day for 4 days. Multiply: $4 \times \frac{2}{8} = \frac{4 \times 2}{8} = \frac{8}{8} = 1$ mile. The answer is 1 mile.



Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 3 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 3 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ CONFIDENCE TODAY.
SUCCESS TOMORROW!

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
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