

Rhode Island

RICAS

GRADE 6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



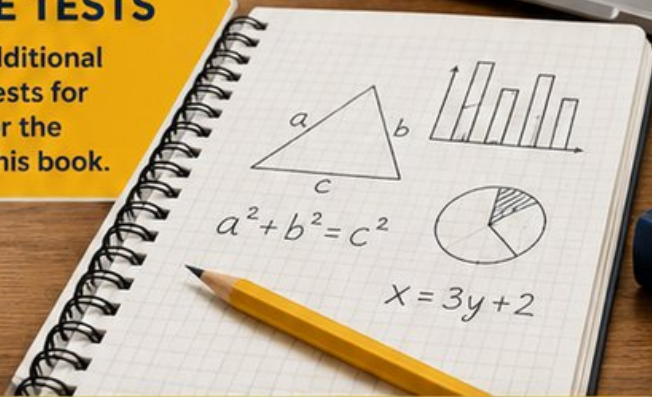
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.



PREPARE • PRACTICE • SUCCEED



5 Rhode Island RICAS Grade 6 Math Practice Tests

Standards-Aligned Compact, Careful Review for Rhode Island Comprehensive Assessment System

$436 + 289$ $A = 24$

1 2 3 4 5 6 7 8

5×8 $\frac{5}{6}$

complete Rhode Island practice rounds

Five complete 40-question Grade 6 practice rounds for RICAS, built for compact, careful review with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Welcome, Rhode Island Math Explorer!

Eight focused rounds using compact, careful review

This book gives you five full Grade 6 practice tests for RICAS. Each round uses harbor paths, short routes, and precise math notes as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Rhode Island Practice Promise

Make every step count: read exactly, solve neatly, and check before moving on.

Read

Plan

Check

How to Use This Book

A five-session routine for compact, careful review

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Mark confidence.** Put a small star beside problems where your plan felt strong.
3. **Work in order.** Take one 40-question test at a time in a quiet place.
4. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.
5. **Correct actively.** Retry missed items before reading the full explanation.

Rhode Island review rhythm: Use each round as a focused check, then review the few skills that need attention.



What Is Inside?

Eight RICAS tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Compact, careful review means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	30
★ Practice Test 3	_____	46
★ Practice Test 4	_____	62
★ Practice Test 5	_____	77
Practice Test Answer Keys	_____	94
Practice Test Answers and Explanations	_____	98

1) Which statement is false?

- A. $-9 < -5$
 C. $-0.5 < 0.5$
 B. $-2.5 > -3.5$
 D. $-7 > -3$

2) Which set of phrases describes equivalent ratios in the same order?

- A. “For every 2 cats there are 5 dogs” and “The ratio is 5 : 2”
 B. “For every 3 apples there are 7 oranges” and “The ratio is 3 : 7”
 C. “For every 4 red cars there are 6 blue cars” and “The ratio is 3 : 2”
 D. “For every 5 boys there are 8 girls” and “The ratio is 8 : 5”

3)

Proportional Relationship

Quantity A	Quantity B	Ratio
8	12	2 : 3
10	15	?
12	18	2 : 3

What ratio should fill the ? in the table above?

- A. 1 : 2
 C. 2 : 5
 B. 2 : 3
 D. 3 : 4

4) A dataset’s five-number summary is: min = 9, $Q_1 = 14$, median = 19, $Q_3 = 26$, max = 35. Calculate the upper whisker length (from Q_3 to max).



5) Which three representations are equivalent?

A. 0.2, $\frac{1}{5}$, and 20%

C. 0.4, $\frac{1}{5}$, and 40%

B. 0.2, $\frac{2}{5}$, and 20%

D. 0.4, $\frac{4}{10}$, and 20%

6) What is the reflection of $(7, -2)$ across the y -axis?

A. $(-7, 2)$

C. $(7, 2)$

B. $(-7, -2)$

D. $(2, 7)$

7) A circle has a radius of 5 cm. What is its approximate area? Use $\pi \approx 3.14$.

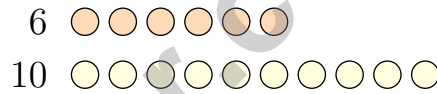
A. 15.7 cm²

C. 78.5 cm²

B. 31.4 cm²

D. 314 cm²

8)



The diagram represents a ratio of 6 : 10. Which statement about the ratio 6 : 10 is FALSE?

A. It simplifies to 3 : 5.

C. It is equivalent to 12 : 20.

B. It can be written as $\frac{6}{10}$ or $\frac{3}{5}$.

D. It is equivalent to 5 : 6.

9) A car travels 180 miles in 3 hours. Which of the following is the rate written in simplest form as miles per hour?

A. 60 miles per hour

C. 180 miles per hour

B. 90 miles per hour

D. 540 miles per hour



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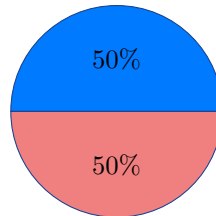
5) In the stem-and-leaf plot above (Question 8), how many scores are in the 70s?

A. 3

C. 5

B. 4

D. 6



6)

A music store polled 200 customers about preferred instruments. If the circle graph shows 50% prefer guitar, how many customers prefer guitar?

A. 100

C. 50

B. 75

D. 150

7) In the expression $2a + 5b + 10 + 3c$, how many constant terms are there?

A. 0

C. 2

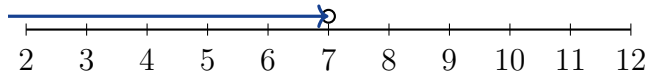
B. 1

D. 3



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1) Which number line correctly shows $x < 7$?

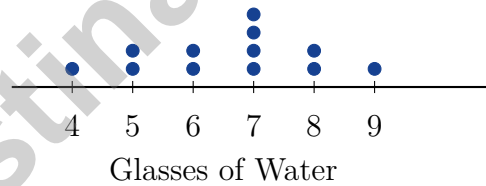


- A. Closed circle at 7, arrow left
- B. Open circle at 7, arrow left
- C. Open circle at 7, arrow right
- D. Closed circle at 7, arrow right

2) A student calculated the range of a data set as 50 and found the IQR to be 25. Which statement is always true?

- A. The IQR is larger than the range.
- B. The range is smaller than the IQR.
- C. Q1 and Q3 must be equal.
- D. The middle 50% of data spreads over 25 units.

3) A dot plot displays the number of glasses of water consumed daily by 12 people. The values are: 4, 5, 5, 6, 6, 7, 7, 7, 7, 8, 8, 9. Which is true?



- A. The mode is 5 glasses
- B. The mode is 7 glasses
- C. The range is 6 glasses
- D. The median is 5 glasses

4) The five-number summary of student test scores is: min = 55, $Q_1 = 70$, median = 78, $Q_3 = 85$, max = 98. How many points is the range?

- A. 15
- B. 23
- C. 43
- D. 78



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& answers

Rhode Island RICAS Practice Test Answer Keys

How to use this Rhode Island RICAS answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to compact, careful review
3. rework the problem before reading the full explanation, using this reminder:
Make every step count: read exactly, solve neatly, and check before moving on.

A calm Rhode Island correction routine turns every missed item into useful practice. Use each round as a focused check, then review the few skills that need attention.



Rhode Island Practice Test Answers and Explanations

Review the five printed RICAS tests with precise, focused, and ready for the next page habits.

Practice Test 1 Answers and Explanations

- Choice D is correct.** (6.NS.C.7) A is true ($-9 < -5$). B is true ($-2.5 > -3.5$). C is true ($-0.5 < 0.5$). D is false: $-7 < -3$, not greater.
- Choice B is correct.** (6.RP.A.3) Choice B keeps the same order: apples first, oranges second. The phrase and the ratio both say 3 : 7.
- Choice B is correct.** (6.RP.A.3) Each row maintains the ratio 2 : 3. Row 1: $8 : 12 = 2 : 3$ (divide by 4). Row 2: $10 : 15 = 2 : 3$ (divide by 5). Row 3: $12 : 18 = 2 : 3$ (divide by 6). All rows have the ratio 2 : 3.
- The correct answer is 9.** (6.SP.B.4) Upper whisker length = $\max - Q_3 = 35 - 26 = 9$.
- Choice A is correct.** (6.RP.A.3) $\frac{1}{5} = 0.2 = 20\%$. All three representations equal the same value.
- Choice B is correct.** (6.NS.C.8) Reflecting across the y -axis changes the sign of the x -coordinate. The point $(7, -2)$ becomes $(-7, -2)$.
- Choice C is correct.** (6.RP.A.3) Area of a circle = $\pi r^2 \approx 3.14 \times 5^2 = 3.14 \times 25 = 78.5 \text{ cm}^2$.
- Choice D is correct.** (6.RP.A.3) Simplify 6 : 10 by dividing both parts by 2, giving 3 : 5. That means $\frac{3}{5}$ and 12 : 20 are equivalent forms, but 5 : 6 is not.
- Choice A is correct.** (6.RP.A.2) A rate compares two quantities with different units. Divide the distance by the time: $180 \div 3 = 60$ miles per hour.
- Choice B is correct.** (6.NS.A.1) $\$45 \div 9 = \5 per t-shirt.
- Choice B is correct.** (6.RP.A.3) The unit rate (speed) is $\frac{110 \text{ miles}}{2 \text{ hours}} = 55$ miles per hour. The equation is $d = 55t$, where d is distance and t is time.
- Choice C is correct.** (6.RP.A.3) Percent increase is $\frac{75000}{500000} = \frac{75}{500} = \frac{3}{20} = 0.15 = 15\%$.
- Choice D is correct.** (6.RP.A.3) Cross-multiply: $2 \times x = 3 \times 8$, so $2x = 24$, thus $x = 12$.
- Choice A is correct.** (6.RP.A.2) Divide: $20 \div 8 = 2.5$ gallons.
- Choice C is correct.** (6.SP.B.4) At \$50 per month: $\frac{\$500}{\$50} = 10$ months.
- The correct answer is 88.** (6.SP.B.5) With 10 scores, the median is the average of the 5th and 6th values: $(88 + 88) \div 2 = 88$.
- Choice B is correct.** (6.EE.C.9) Using $w = 8t$ (water = 8 ounces per second): after 5 seconds, $w = 8 \times 5 = 40$ ounces. The graph passes through the origin, not $(0, 8)$.
- Choice C is correct.** (6.EE.C.9) In 8 weeks, there are $8 \div 2 = 4$ two-week periods. Total saved: $\$25 \times 4 = \100 .
- Choice C is correct.** (6.RP.A.3) Multiply: $2.5 \text{ cm} \times 4 = 10 \text{ cm}$.
- The correct answer is A statistical question anticipates variability and is answered by collecting data..** (6.SP.A.3) Options B and C are correct: statistical questions expect varied answers and require data collection. Option A is wrong (statistical questions do NOT have single answers). Option D is irrelevant (statistical questions can be about unfamiliar topics). Option E partially overlaps with B and C but is less precise.
- Choice B is correct.** (6.NS.A.1) $\frac{1}{2} \div 8 = \frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$ cup per serving.
- Choice B is correct.** (6.NS.B.2) $6,300 \div 48 = 131$ remainder 12. So 131 shelves are filled completely.
- Choice A is correct.** (6.NS.B.3) Add: $2.25 + 3.75 = 6.0 \text{ km}$.
- Choice D is correct.** (6.NS.B.4) Factors of 16: 1, 2, 4, 8, 16. Factors of 40: 1, 2, 4, 5, 8, 10, 20, 40. The greatest common factor is 8.
- Choice B is correct.** (6.NS.B.4) $5(2 + 8) = 5 \cdot 2 + 5 \cdot 8 = 10 + 40 = 50$. Only Choice B shows the correct expansion via the distributive property.



Hi, Math Athlete!

◇ 5 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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