

3

Rhode Island

RICAS

GRADE

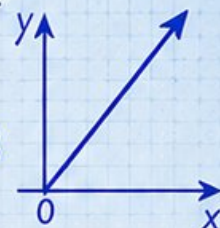
6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

$$y = 2x + 3$$



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

$$36\% \text{ of } 150 = ?$$



3 | PRINTED TESTS



2 | ONLINE TESTS



Build Confidence



Master Key Math Skills



Answer Explanations for Every Question



Test-Taking Strategies That Work

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

3 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

3×10 **3** $\frac{3}{4}$

complete Rhode Island practice rounds

Three 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.

Jay Daie and Reza Nazari



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Welcome, Rhode Island Math Explorer!

Three focused rounds using compact, careful review

This book gives you three 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 three-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?

Three RICAS tests, 120 questions, and a full review path

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

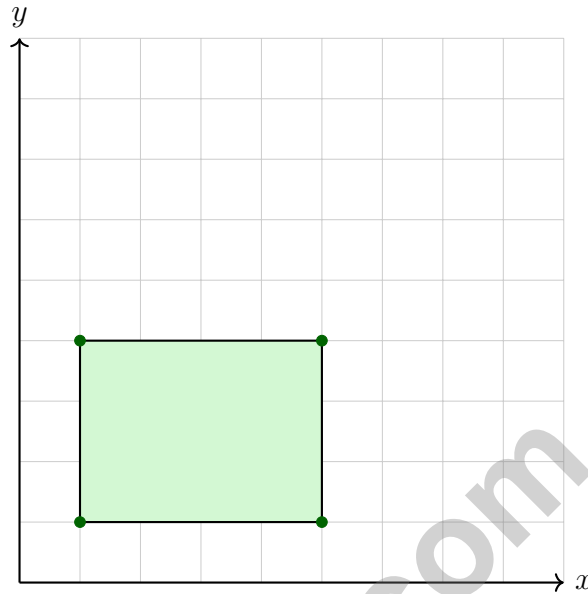
The tests are mixed on purpose. Compact, careful review means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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1)

What is the perimeter of the rectangle shown above?

- A. 9 units
- B. 12 units
- C. 14 units
- D. 16 units

2) In the expression shown, what is the sum of all coefficients?

$$\begin{array}{r} \text{Expression: } 6a + 2b - 4c \\ \downarrow \quad \downarrow \quad \downarrow \\ \text{Coeff: } 6 \quad \text{Coeff: } 2 \quad \text{Coeff: } -4 \end{array}$$

- A. 4
- B. 12
- C. 0
- D. -4

- 3) What is the mean of the data set: 3, 5, 7, 9, 11?
- A. 5 C. 9
 B. 11 D. 7
- 4) A box contains 40 pens: 15 blue, 12 red, 8 green, and 5 black. If one pen is drawn at random, what is the probability it is red?
- A. $\frac{1}{4}$ C. $\frac{1}{3}$
 B. $\frac{3}{10}$ D. $\frac{2}{5}$
- 5) A graph shows earnings from mowing lawns. The relationship is linear, and the point (3, 45) is on the line. If the origin (0, 0) is also on the line, what is the constant rate of pay per lawn?
- A. \$12 per lawn C. \$20 per lawn
 B. \$15 per lawn D. \$45 per lawn
- 6) In a group of 50 people, 15 prefer tea. What percent prefer tea?
- A. 15% C. 30%
 B. 25% D. 35%
- 7) What is 15% of \$200?
- A. \$20 C. \$30
 B. \$25 D. \$35



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8) Solve: $\frac{8}{12} = \frac{x}{30}$.

 A. 18 C. 22 B. 20 D. 25

9) A shipping box weighs 2,500 grams. A student needs to report the weight in kilograms but accidentally multiplied instead of dividing. What is the correct answer?

 A. 2.5 kg C. 250 kg B. 25 kg D. 2,500,000 kg

10) Which of the following transactions uses a credit card?

 A. Paying with money from your bank account C. Using a card linked directly to your bank account B. Borrowing money to pay now and paying back later D. Withdrawing cash from an ATM

11) Which of the following does NOT represent a proportional relationship?

x	2	4	6
y (option A)	6	12	18
y (option B)	4	7	10

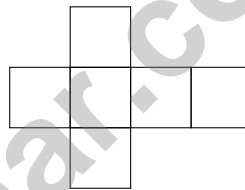
 A. Option A C. Both A and B B. Option B D. Both are proportional

1) The table shows the ratio of wins to losses for three sports teams.

Team	Wins	Losses
Panthers	12	8
Tigers	9	6
Lions	6	5

Which two teams have the same win-to-loss ratio?

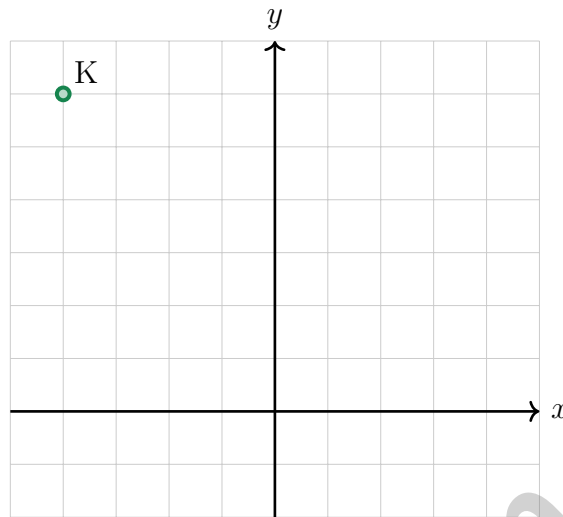
- A. Panthers and Tigers
- B. Tigers and Lions
- C. Panthers and Lions
- D. All three teams
- 2) Which shape is a valid net of a cube?



- A. Cross pattern with 6 squares
- B. Line of 5 squares with 1 attached
- C. 2×3 rectangle
- D. Line of 4 squares only



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3)

Point K is at $(-4, 6)$. It is translated 4 units right and 3 units down. What are the coordinates of K' ?

- A. $(0, 3)$ C. $(0, 9)$
 B. $(-8, 9)$ D. $(-8, 3)$

4) If the area of a circle is approximately 28.26 m^2 and $\pi \approx 3.14$, what is the diameter?

- A. 6 m C. 9 m
 B. 3 m D. 12 m

5) A student asks: "How many hours per week do students in my grade spend exercising?" Why is this a statistical question?

- A. Because exercise is healthy. C. Because different students exercise different amounts, requiring data from many people.
 B. Because it involves numbers and hours. D. Because the question is asked in science class.



4) A student measured a trapezoid with bases of 14 m and 10 m and a height of 7 m. What is the area?

A. 84 m^2

B. 98 m^2

C. 70 m^2

D. 140 m^2

5) A rectangular prism has a base area of 12 in^2 and a height of 5 in. What is its volume?

A. 17 in^3

B. 24 in^3

C. 36 in^3

D. 60 in^3

6) If $|x| = 25$, list both possible values of x .



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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.



Scan me!
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& answers

Rhode Island Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(6.G.A.3)** Width = $5 - 1 = 4$ units; height = $4 - 1 = 3$ units. Perimeter = $2(4 + 3) = 14$ units.
- Choice A is correct.** **(6.EE.A.4)** Sum: $6 + 2 + (-4) = 4$. Note: when including negative coefficients, add them with their signs.
- Choice D is correct.** **(6.SP.A.2)** Sum = $3 + 5 + 7 + 9 + 11 = 35$. Mean = $35 \div 5 = 7$.
- Choice B is correct.** **(6.NS.B.3)** Red pens = 12. Total pens = 40. Probability = $\frac{12}{40} = \frac{3}{10}$.
- Choice B is correct.** **(6.RP.A.3)** If lawns mowed is on the x-axis and dollars earned is on the y-axis, the unit rate is $\frac{45}{3} = 15$ dollars per lawn.
- Choice C is correct.** **(6.RP.A.3)** $\frac{15}{50} = \frac{30}{100} = 30\%$ (multiply numerator and denominator by 2).
- Choice C is correct.** **(6.RP.A.3)** $15\% \times \$200 = 0.15 \times 200 = \30 .
- Choice B is correct.** **(6.RP.A.3)** Cross-multiply: $8 \times 30 = 12 \times x$, so $240 = 12x$, thus $x = 20$.
- Choice A is correct.** **(6.RP.A.2)** Divide: $2500 \div 1000 = 2.5$ kg. The student's error of multiplying would give an absurdly large number.
- Choice B is correct.** **(6.SP.B.4)** A credit card allows you to borrow money and pay it back later. Options A, C, and D describe debit transactions or cash withdrawals.
- Choice B is correct.** **(6.EE.C.9)** Option A has a constant ratio: $6/2 = 3$, $12/4 = 3$, and $18/6 = 3$. Option B does not: $4/2 = 2$, $7/4 = 1.75$, and $10/6 \approx 1.67$.
- Choice C is correct.** **(6.EE.C.9)** Budget A total: $\$900 + \$300 + \$200 + \$100 = \$1500$. Budget B total: $\$700 + \$250 + \$200 + \$100 = \$1250$. Difference: $\$1500 - \$1250 = \$250$.
- Choice C is correct.** **(6.RP.A.3)** Multiply: $5 \times 2 = 10$ feet.
- Choice D is correct.** **(6.NS.A.1)** Keep the first fraction, invert the second, and multiply.
- Choice A is correct.** **(6.NS.B.2)** Following the long division steps: $7,524 \div 44 = 171$ with no remainder. Verify: $44 \times 171 = 7,524$.
- Choice B is correct.** **(6.NS.B.3)** Add: $12.4 + 11.8 + 13.2 = 37.4$ s.
- Choice A is correct.** **(6.NS.B.4)** Multiples of 10: 10, 20, 30, 40, ... Multiples of 15: 15, 30, 45, ... The least common multiple is 30.
- 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. Common factors: 1, 2, 4, 8. GCF is 8.
- Choice B is correct.** **(6.NS.C.5)** A loss represents a decrease or negative change. A loss of 9 points is written as the integer -9 .
- The correct answer is $4 : 6 = 2 : 3$ (dividing by 2) and $4 : 6 = 8 : 12$ (multiplying by 2)..** **(6.RP.A.3)** Nice checking: Choice A works because $4 : 6$ simplifies to $2 : 3$, and Choice B works because multiplying both parts of $4 : 6$ by 2 gives $8 : 12$. The other choices change the relationship.
- Choice A is correct.** **(6.SP.B.4)** Computing: $|-2| = 2$, $|-5| = 5$, $|6| = 6$, $|-9| = 9$. In order: $2 < 5 < 6 < 9$.
- Choice B is correct.** **(6.SP.B.4)** Reading from the number line, point B is located at the tick mark labeled -2 .
- Choice C is correct.** **(6.NS.C.8)** To go from $(3, 4)$ to $(-3, -4)$, both the x -coordinate sign and y -coordinate sign must change. This requires reflection across both the x -axis and y -axis.
- Choice D is correct.** **(6.NS.C.7)** $M = 2$ and $N = 7$. Since $2 < 7$, we have $M < N$.
- Choice C is correct.** **(6.NS.C.8)** Distance on map: $|12 - 4| = 8$ units. Actual distance: $8 \times 250 = 2000$ meters.
- The correct answer is 16.** **(6.RP.A.3)** Shirts are the 3-part amount. Since $24 \div 3 = 8$, each part is 8, and pants are 2 parts: $2 \times 8 = 16$.



Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 3 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. SUCCEED TOMORROW!

This book includes 3 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

- 3 Full-Length Printed Tests
 - 2 Online Practice Tests
-  Detailed Answer Explanations

MORE PRACTICE. GREATER RESULTS.

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

WHAT YOU'LL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 ONLINE TESTS

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



VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)
FOR MORE PRACTICE TESTS
AND LEARNING RESOURCES



PRACTICE
REGULARLY



STAY
FOCUSED



SOLVE
CONFIDENTLY



SUCCEED
BRIGHTLY

PREPARE TODAY. **SUCCEED TOMORROW!**