

4 Rhode Island RICAS

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

**PRINTED
TESTS**



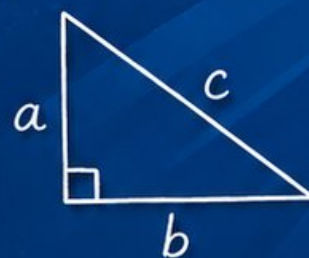
2

**ONLINE
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$

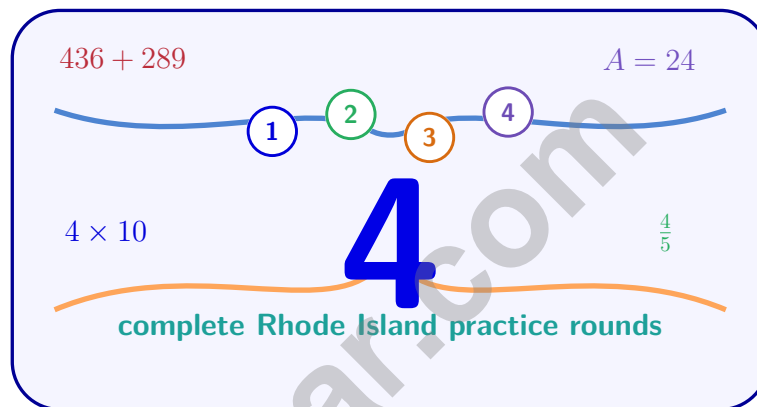


**USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.**

4 Rhode Island RICAS Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using compact, careful review

This book gives you four 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 four-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?

Four RICAS tests, 160 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 and final stamina rounds with expressions, equations, geometry, data, and problem models.
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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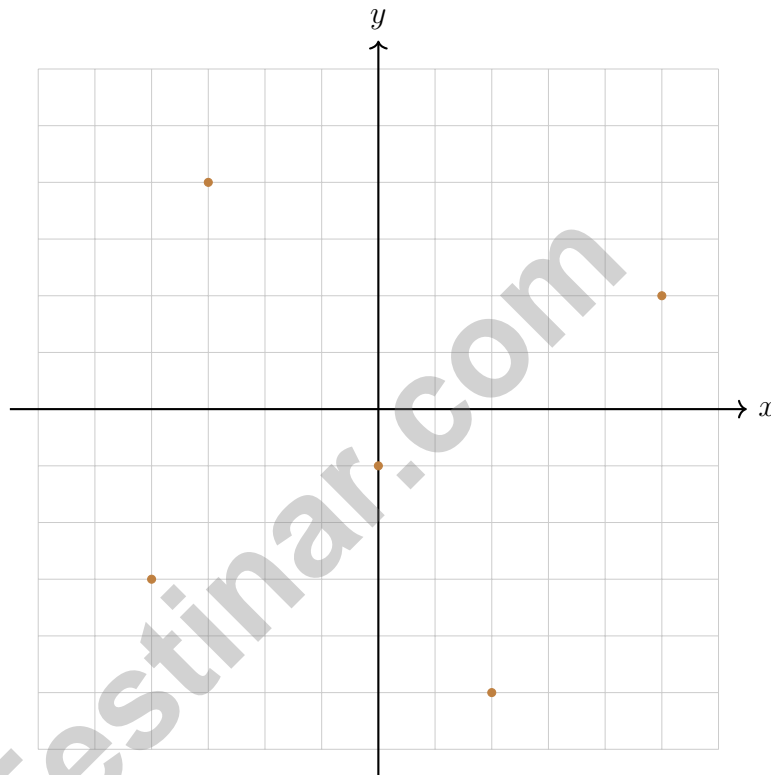
5) A student is asked to find a rational number between -0.6 and -0.5 on a number line. Which number does NOT work?

A. $-\frac{11}{20}$ (which is -0.55)

C. $-\frac{9}{16}$ (which is -0.5625)

B. -0.52

D. $-\frac{1}{2}$ (which is -0.5)



6)

How many of the plotted points lie on an axis?

A. 0

C. 2

B. 3

D. 1



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7) Order from least to greatest:

$$\frac{1}{6}, -\frac{1}{6}, \frac{1}{3}, -\frac{1}{3}$$

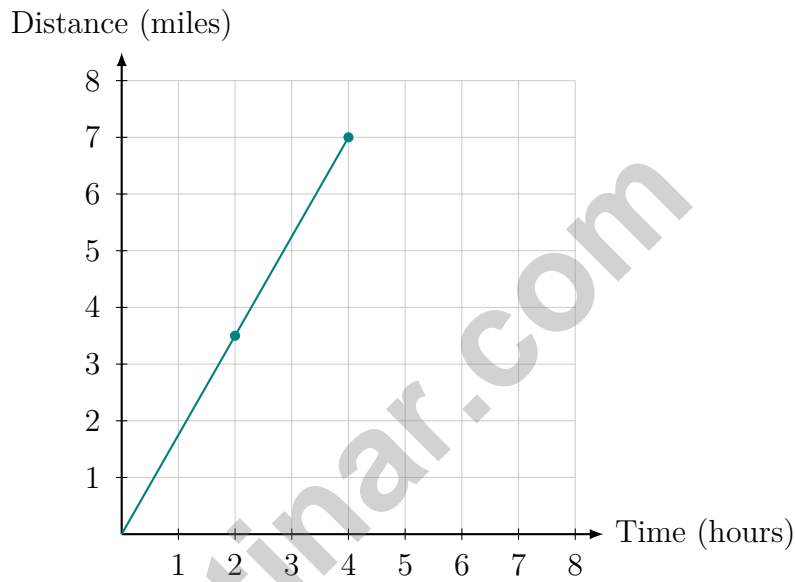
A. $-\frac{1}{3}, -\frac{1}{6}, \frac{1}{6}, \frac{1}{3}$

B. $\frac{1}{6}, \frac{1}{3}, -\frac{1}{6}, -\frac{1}{3}$

C. $-\frac{1}{6}, -\frac{1}{3}, \frac{1}{6}, \frac{1}{3}$

D. $\frac{1}{3}, \frac{1}{6}, -\frac{1}{6}, -\frac{1}{3}$

8) The graph below represents the distance a train travels over time.



What is the train's speed?

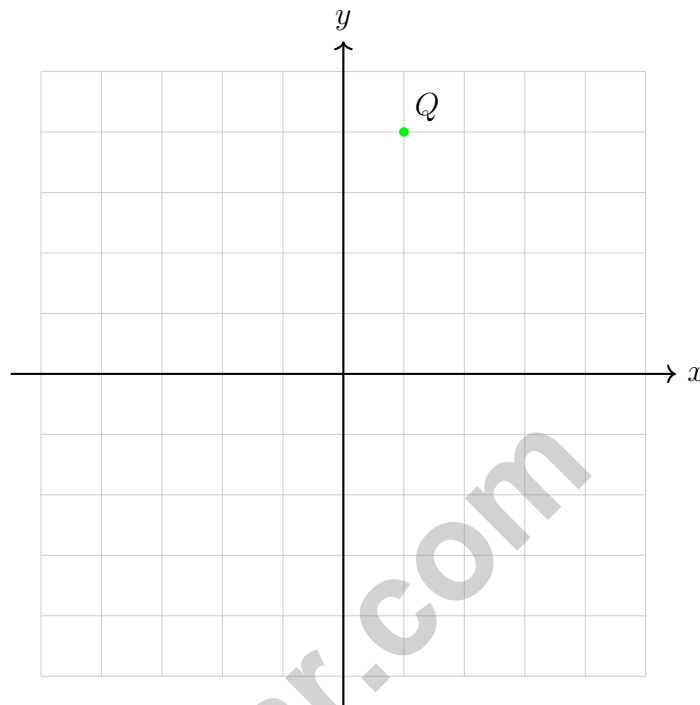
A. 1.5 miles per hour

B. 3.5 miles per hour

C. 2 miles per hour

D. 1.75 miles per hour





1)

If point Q is reflected across the x -axis, what are the new coordinates?

- A. (1, 4) C. (-1, 4)
 B. (-1, -4) D. (1, -4)

2) Read the question in the box below:

“How tall are the players on the basketball team?”

Is this a statistical question, and why or why not?

- A. No, because it asks about a team that has a fixed number of players.
 B. Yes, because it asks about many different heights.
 C. No, because basketball teams always have the same average height.
 D. Yes, because you must collect data from many players whose heights vary.



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- 3) In a box plot, the upper whisker extends from Q_3 to:
- A. The median C. The maximum
 B. Q_1 D. The mean
- 4) A histogram of test scores is skewed right. Which is most likely true?
- A. The mean is much less than the median. C. The mean is much greater than the median.
 B. The mean equals the median. D. The mode equals the mean.
- 5) Raw data: 71, 78, 75, 82, 79, 81, 76, 83. If organized in a stem-and-leaf plot, what is the value of the 4th data point when listed in order?
- A. 76 C. 79
 B. 78 D. 81
- 6) A survey of 360 people asked about favorite pizza toppings. One section of the circle graph represents $\frac{1}{5}$ of the total. What central angle does this represent?
- A. 36° C. 90°
 B. 60° D. 72°
- 7) A teacher uses a histogram to compare test scores. The histogram has intervals: 50–60 (freq 2), 60–70 (freq 5), 70–80 (freq 8), 80–90 (freq 4), 90–100 (freq 1). What percentage of students scored between 70 and 90?
- A. 48% C. 60%
 B. 52% D. 80%



- 1) A circle has an approximate area of 201 m^2 using $\pi \approx \frac{22}{7}$. What is the radius?
- A. 4 m C. 14 m
 B. 7 m D. 8 m
- 2) A restaurant receives 3,744 napkins in boxes of 16. How many boxes did they receive?
- A. 234 C. 240
 B. 230 D. 244
- 3) A student incorrectly computed $4.2 \times 0.5 = 2.10$ instead of 2.1. Which statement is true?
- A. The student made an error; trailing zeros should be removed. C. The decimal point is in the wrong place.
 B. Both answers are equivalent in value. D. The student forgot to multiply.
- 4) The table shows $h = 2, 4, 6$ and $s = 8, 16, 24$. What is the constant of proportionality?
-
- 5) What is the prime factorization of 56?
- A. 2×28 C. 7×8
 B. $2^3 \times 7$ D. $2^2 \times 14$



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& answers

6) Maria is organizing supplies for a field trip. She has 36 pencils and 48 erasers to distribute equally among groups. What is the greatest number of groups she can make if each group gets the same number of pencils and erasers?

- A. 4 C. 12
 B. 6 D. 24

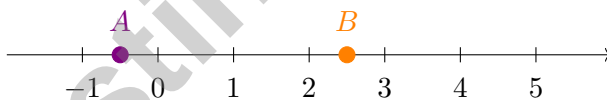
7) Which student correctly evaluated $|-7|$?

- A. Jordan: $|-7| = -7$ because it is negative C. Alex: $|-7| = 0$ because opposites cancel
 B. Sam: $|-7| = 14$ because you add the digits D. Maya: $|-7| = 7$ because absolute value is the distance from zero

8) Which pair of numbers are opposites on a number line (equal distance from 0 but opposite sides)?

- A. -3 and 3 C. -1 and 0
 B. -2 and 4 D. 2 and 2.5

9)



What is the relationship between A and B ?

- A. $A < B$ C. $A = B$
 B. $A > B$ D. A is 3 units left of B



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

Practice Test 1 Answers and Explanations

- Choice A is correct. **(6.RP.A.3)** $\frac{42}{150} = 42 \div 150 = 0.28 = 28\%$.
- The correct answer is 25%. **(6.RP.A.3)** Increase is $93.75 - 75 = 18.75$. Percent increase is $\frac{18.75}{75} = 0.25 = 25\%$.
- Choice A is correct. **(6.NS.C.5)** Total change is $(+6) + (-3) + (-2) = 6 - 3 - 2 = 1$ point, a positive change of 1 point.
- Choice C is correct. **(6.SP.B.4)** Computing: $|-11| = 11$, $|-7| = 7$, $|4| = 4$, $|-9| = 9$. The smallest is 4.
- Choice D is correct. **(6.SP.B.4)** To be between -0.6 and -0.5 , a number must satisfy $-0.6 < x < -0.5$. The value -0.5 is the endpoint, not strictly between the two values.
- Choice D is correct. **(6.NS.C.8)** Only the point $(0, -1)$ lies on an axis (the y -axis, since $x = 0$). The other points have both coordinates non-zero.
- Choice A is correct. **(6.NS.C.7)** Negatives come before positives. $-\frac{1}{3} < -\frac{1}{6}$ and $\frac{1}{6} < \frac{1}{3}$.
- Choice D is correct. **(6.EE.C.9)** Using points $(2, 3.5)$ and $(4, 7)$: slope = $\frac{7-3.5}{4-2} = \frac{3.5}{2} = 1.75$ miles per hour.
- Choice B is correct. **(6.G.A.1)** $A = \frac{1}{2} \times 9 \times 12 = 54 \text{ ft}^2$.
- Choice B is correct. **(6.G.A.1)** Area = base \times height = $5 \times 2 = 10 \text{ cm}^2$. The dashed line shows height.
- Choice D is correct. **(6.G.A.2)** $V = 4 \times 3.5 \times 2 = 14 \times 2 = 28 \text{ in}^3$.
- Choice C is correct. **(6.G.A.1)** Base: $10 - 2 = 8$ units. Height: $8 - 2 = 6$ units. Area = $\frac{1}{2} \times 8 \times 6 = 24$ square units.
- Choice A is correct. **(6.G.A.3)** The vertices $(2, 2)$, $(5, 2)$, $(5, 5)$, and $(3, 5)$ do not form a rectangle. The bottom side goes from $x = 2$ to $x = 5$ (length 3), but the top side goes from $x = 3$ to $x = 5$ (length 2). The sides are not parallel, so it is not a rectangle.
- Choice C is correct. **(6.SP.A.2)** The bulk of the data is clustered on the right (75–85), with a tail extending left (60s). This is left-skewed. The one high score (95) doesn't create skew because skew depends on the distribution of most values.
- Choice C is correct. **(6.NS.B.3)** Certain events have probability 1. Only choice C must happen every time a coin is flipped.
- Choice A is correct. **(6.EE.C.9)** The equation $y = 7x$ represents a proportional relationship with constant of proportionality $k = 7$. The graph passes through the origin.
- Choice C is correct. **(6.EE.C.9)** Correct entertainment budget: 15% of $\$2000 = 0.15 \times 2000 = \300 . The parent allocated $\$400$ when it should be $\$300$.
- The correct answer is The constant of proportionality is 4, and the cost per unit is \$4. **(6.RP.A.3)** A is correct because $k = \frac{8}{2} = 4$. B is correct because the cost per unit is \$4. The equation is $y = 4x$, so Choice C is false; Choice D is false because the graph passes through $(0, 0)$; Choice E gives the wrong unit rate.
- Choice C is correct. **(6.RP.A.3)** Use the scale: 3 inches \times 8 feet/inch = 24 feet.
- Choice B is correct. **(6.NS.A.1)** Dividing by $\frac{1}{8}$ is the same as multiplying by 8. So $\frac{1}{2} \div \frac{1}{8} = \frac{1}{2} \times 8$, which simplifies to 4.
- Choice B is correct. **(6.NS.B.2)** The estimate is ≈ 192 . The exact answer is $4,756 \div 26 = 182$ remainder 24, which rounds to 183 as the closest choice.
- Choice A is correct. **(6.NS.B.3)** $3 \times 3 = 9$. We have $1 + 1 = 2$ decimal places total, so 0.09 is correct.
- Choice D is correct. **(6.NS.B.4)** Prime factorization: $38 = 2 \times 19$ and $57 = 3 \times 19$. The only common prime factor is 19, so GCF is 19.
- Choice A is correct. **(6.NS.B.4)** Distributive property: $9(3 + 4) = 9 \cdot 3 + 9 \cdot 4 = 27 + 36 = 63$. Choice A shows the expanded form.



Scan me!
For more practice
& answers

Hi, Math Pilot!

◇ 4 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 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:

4 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

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



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FOR MORE PRACTICE TESTS
AND LEARNING RESOURCES



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