

GRADE

6

MATH

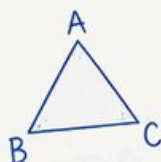
6

Rhode Island RICAS

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



6 PRINTED TESTS + 2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills



SUCCEED

Build confidence and achieve your best

6 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

6×8 $\frac{5}{6}$

6

complete Rhode Island practice rounds

Six 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!

Eight focused rounds using compact, careful review

This book gives you six 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 six-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 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

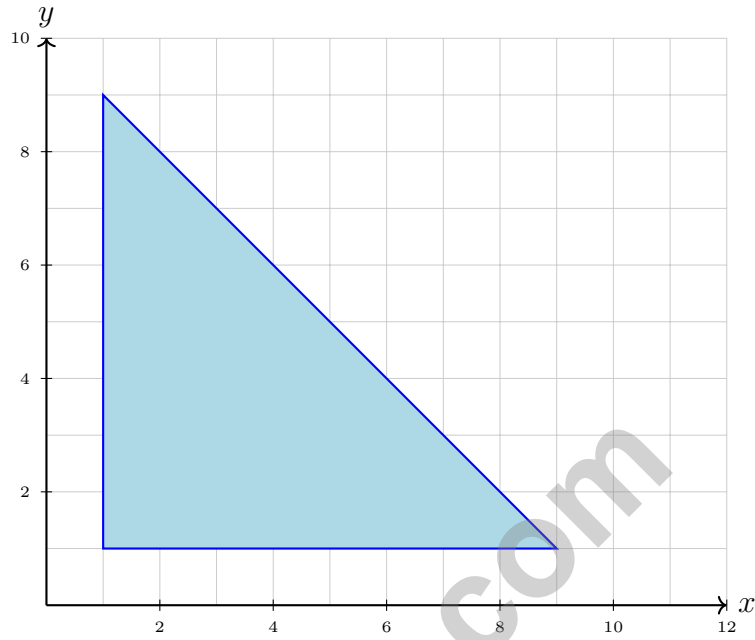
The tests are mixed on purpose. Compact, careful review means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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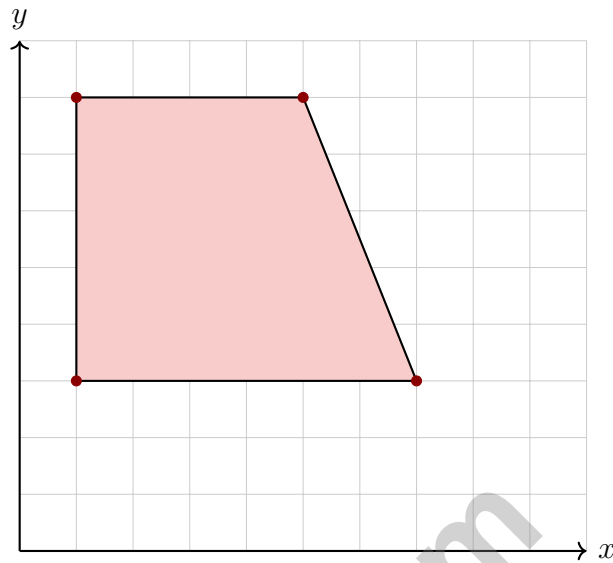


1)

What is the area of the right triangle with vertices at $(1, 1)$, $(9, 1)$, and $(1, 9)$?

- A. 32 square units C. 24 square units
 B. 28 square units D. 36 square units





2)

What is the length of the top side?

- A. 4 units C. 6 units
 B. 5 units D. 7 units

3) A company is packing gift sets. They have 32 mugs and 48 candles. Each gift set will have the same number of mugs and candles with nothing left over. What is the maximum number of gift sets?

- A. 8 sets C. 16 sets
 B. 12 sets D. 32 sets

4) Use the GCF to factor $52 + 39$. (Hint: GCF is 13)

- A. $13(4 + 3)$ C. $13(52 + 39)$
 B. $13(4 + 39)$ D. $13(4 \times 3)$



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& answers

5) Find $|0|$.

A. 0

C. 1

B. -1

D. Undefined

6) Which number is closest to 0 on a number line?

A. -2.1

C. 1.3

B. -0.4

D. 2.8

7) What is the distance between the points $(-3, 4)$ and $(-3, -2)$ on the coordinate plane?

A. 4 units

C. 6 units

B. 5 units

D. 7 units

8) If $(-6) \times ? = -30$, what is the missing number?

A. -5

C. -36

B. 5

D. 36

9) A video game player's score was -150 points. After winning a round, their score increased by 200 points. What is their new score?

A. -350 points

C. 50 points

B. -50 points

D. 350 points

10) What is 6^2 ?

A. 12

C. 42

B. 36

D. 62



1) Compute: $\frac{3}{10} \div \frac{1}{5}$

- A. $\frac{3}{50}$
 B. $\frac{3}{15}$

- C. $\frac{3}{2}$
 D. 2

2) A data set has minimum = 10, Q1 = 18, median = 24, Q3 = 30, and maximum = 45. One value is an outlier far above the rest. Which measure of spread is LEAST affected by this outlier?

- A. Range
 B. Interquartile range
 C. Mean absolute deviation
 D. Mean

3) A frequency table from a dot plot shows the most accurate interpretation would be:

Data Value	Frequency	Cumulative Frequency
5	2	2
6	4	6
7	5	11
8	3	14

- A. There are 14 total data points
 B. The mode is 5
 C. There are 5 data values equal to 7
 D. The frequency of 6 is 11

4) A teacher gives two quizzes to a class. Quiz 1 has a five-number summary: min = 60, Q₁ = 75, median = 82, Q₃ = 88, max = 95. Quiz 2 has: min = 65, Q₁ = 78, median = 82, Q₃ = 85, max = 92. Based on the IQR, which quiz had more consistent student performance in the middle 50%?

- A. Quiz 1 had more consistent performance.
 B. Consistency cannot be determined from the five-number summary.
 C. Both quizzes had the same consistency.
 D. Quiz 2 had more consistent performance.



5) Two test groups: Group 1 mean = 75, SD = 5; Group 2 mean = 80, SD = 8. Which statement is best?

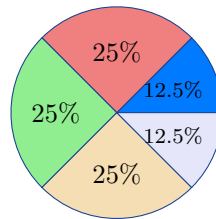
- A. Group 1 performed better and was more consistent.
- B. Group 2 performed better but was more variable.
- C. Both groups are identical.
- D. Group 1 is more variable.

6) A stem-and-leaf plot of student test scores is given:

Stem	Leaf
6	5, 8
7	1, 3, 4, 6, 9
8	0, 2, 5, 7
9	1, 4, 8

What is the mode of the test scores?

- A. 70
- B. 74
- C. 80
- D. No single mode



7)

A survey asked 320 families about car color preference. The circle graph shows 12.5% prefer blue. How many families prefer blue?

- A. 30
- B. 40
- C. 60
- D. 50



Scan me!
For more practice
& 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 six printed RICAS tests with precise, focused, and ready for the next page habits.

Practice Test 1 Answers and Explanations

- Choice A is correct.** **(6.G.A.1)** Base: $9 - 1 = 8$ units. Height: $9 - 1 = 8$ units. Area = $\frac{1}{2} \times 8 \times 8 = 32$ square units.
- Choice A is correct.** **(6.G.A.3)** The top goes from (1, 8) to (5, 8). Length = $5 - 1 = 4$ units.
- Choice C is correct.** **(6.NS.B.4)** This is a GCF problem. Prime factors: $32 = 2^5$ and $48 = 2^4 \times 3$. GCF = $2^4 = 16$. So they can make 16 gift sets with 2 mugs and 3 candles each.
- Choice A is correct.** **(6.NS.B.4)** GCF of 52 and 39 is 13. So $52 + 39 = 13(4 + 3)$. This is the only choice with the correct factorization.
- Choice A is correct.** **(6.SP.B.4)** The absolute value of zero is zero. Zero is its own distance from zero on the number line.
- Choice B is correct.** **(6.SP.B.4)** Closest to zero means smallest absolute value. $|-0.4| = 0.4$, which is less than all other absolute values.
- Choice C is correct.** **(6.NS.C.8)** The x -coordinates are the same, so subtract the y -coordinates: $|4 - (-2)| = |4 + 2| = 6$ units.
- Choice B is correct.** **(6.NS.B.3)** Negative times positive equals negative: $(-6) \times 5 = -30$. Check: divide both sides by -6 to get $? = \frac{-30}{-6} = 5$.
- Choice C is correct.** **(6.EE.A.3)** Adding a score increase to a negative score: $-150 + 200 = 50$ points.
- Choice B is correct.** **(6.EE.A.1)** $6^2 = 6 \times 6 = 36$. A square exponent (power of 2) means multiply the base by itself once.
- Choice B is correct.** **(6.EE.A.3)** "Tripled" means multiply by 3, giving $3w$. "Increased by 10" means add 10: $3w + 10$.
- Choice B is correct.** **(6.EE.A.3)** Substitute $x = 6$: $10 - \frac{6}{2} = 10 - 3 = 7$.
- Choice C is correct.** **(6.EE.B.6)** The expression $b + 250$ shows starting amount b plus a 250-book donation. Therefore, b is the initial count before the donation.
- The correct answer is 11.** **(6.EE.A.3)** Combine y terms: $8y - 2y + 5y = 11y$.
- Choice C is correct.** **(6.EE.B.5)** Multiply both sides by 2.5: $x = 6 \times 2.5 = 15$.
- Choice D is correct.** **(6.EE.B.8)** "No less than 3.0" means 3.0 or more: $g \geq 3.0$.
- Choice C is correct.** **(6.G.A.1)** Area of a parallelogram = base \times height = $8 \times 5 = 40 \text{ m}^2$.
- The correct answer is -4 .** **(6.EE.B.8)** The boundary number is the point where the graph starts: -4 .
- Choice D is correct.** **(6.G.A.2)** $V = 1.5 \times 1.333... \times 2.5 = \frac{3}{2} \times \frac{4}{3} \times \frac{5}{2} = \frac{60}{12} = 5 \text{ m}^3$.
- Choice A is correct.** **(6.SP.A.3)** The population is the entire group of people you want to learn about. In this survey, that group consists of all people whose reading hours the question targets (which could be all students in a class, all sixth graders, etc.).
- Choice C is correct.** **(6.SP.A.2)** Since mean $<$ median, the distribution is left-skewed; low outliers pull the mean below the median.
- The correct answer is $2.4 \times 2 = 4.8$ and $9.6 \div 2 = 4.8$.** **(6.NS.B.3)** A equals 4.8 because $2.4 \times 2 = 4.8$. B equals 4.8 because $9.6 \div 2 = 4.8$. Choices C, D, and E give 4.9, 3.9, and 4.2.
- Choice C is correct.** **(6.SP.A.2)** The median is 38. Excluding the median, the lower half is 5, 12, 25, so $Q1 = 12$. The upper half is 42, 55, 68, so $Q3 = 55$. The IQR is $55 - 12 = 43$.
- Choice B is correct.** **(6.SP.B.4)** The bar for the 21–30 range has a height of 8, which represents the frequency (number of students) in that range.
- Choice B is correct.** **(6.SP.B.4)** Identical boxes mean the same $Q1$, median, and $Q3$ (hence same IQR). Longer whiskers indicate the min and max values are further from the box.
- Choice A is correct.** **(6.SP.B.5)** The values are evenly spaced with equal intervals (2 inches apart), centered around the median (32). This is a perfectly symmetric distribution.



Hi, Math Pilot!

◇ 6 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 Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 6 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

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

6
PRINTED
TESTS

+
2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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.



Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar 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

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

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



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS