

8

Rhode Island

RICAS

GRADE 6

MATH

PRACTICE TESTS

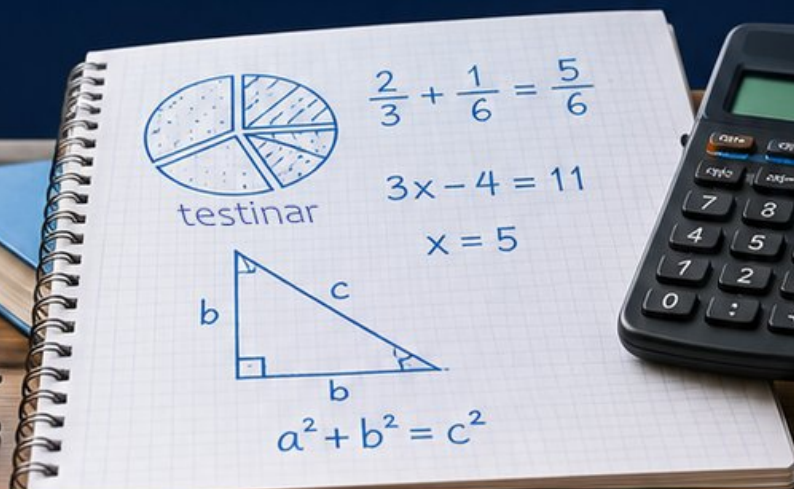
8
PRINTED
TESTS

+

2
ONLINE
TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



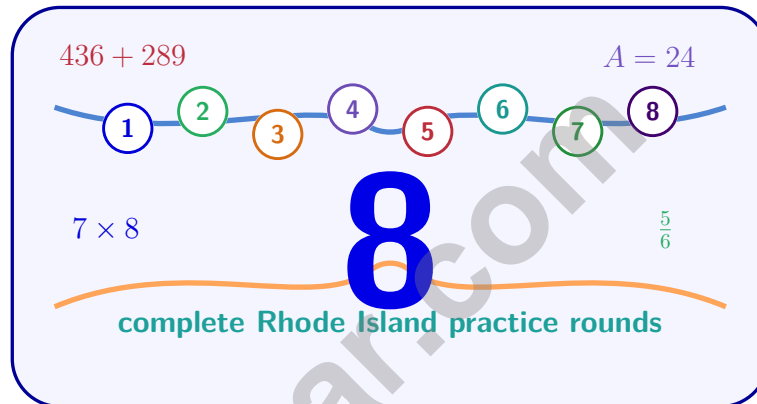
STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Rhode Island RICAS Grade 6 Math Practice Tests

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



Eight 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 eight 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 eight-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 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–8	Final stamina rounds 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

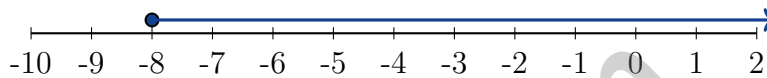
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1) Which statement about proportional relationships is true?

- A. The graph must be a curved line D. The ratio can change from point to point
- B. The ratio y/x must be constant
- C. The line must have a y -intercept other than 0

2) Which graph shows the solution to $-8 \leq x$?

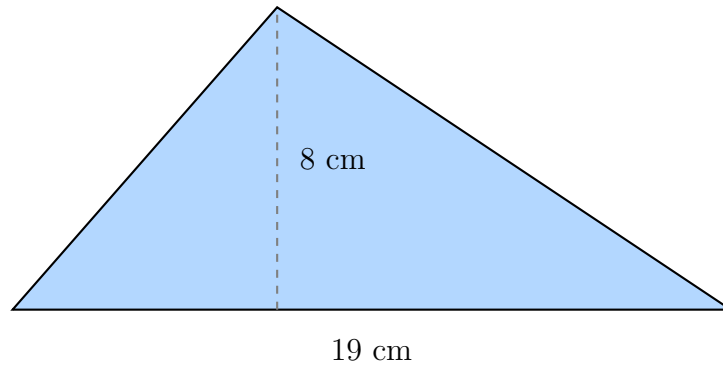


- A. Closed circle at -8 , arrow left C. Closed circle at -8 , arrow right
- B. Open circle at -8 , arrow left D. Open circle at -8 , arrow right

3) Solve for x : $2x = 14$.



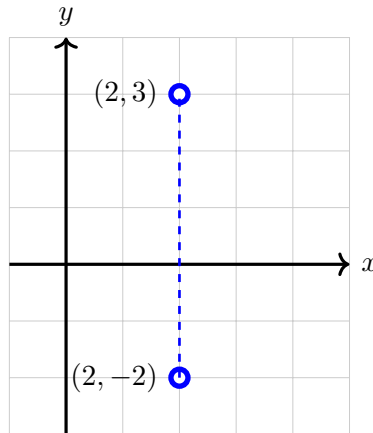
- 4) An acute triangle has a base of 19 centimeters and a height of 8 centimeters. What is its area?



- A. 27 cm^2 C. 76 cm^2
 B. 38 cm^2 D. 152 cm^2
- 5) A rectangle has area 24 square units and length 8 units. What is its perimeter?
- A. 22 units C. 16 units
 B. 20 units D. 24 units
- 6) Which pair of numbers are NOT equivalent on the number line?
- A. $-\frac{1}{2}$ and -0.5 C. $-\frac{1}{4}$ and -0.4
 B. $\frac{3}{4}$ and 0.75 D. -2 and $-\frac{6}{3}$



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7)

Find the distance between $(2, -2)$ and $(2, 3)$.

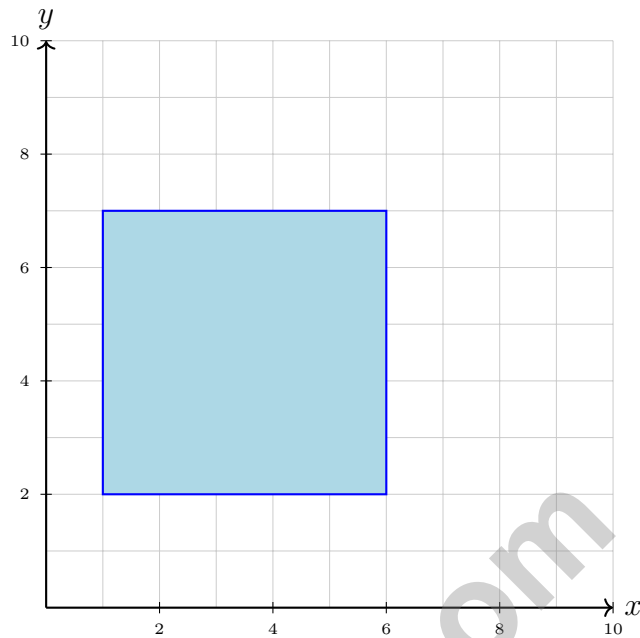
 A. 4 units B. 5 units C. 6 units D. 7 units

8) A parking garage charges \$3 per hour. If a customer stays for 4 hours, what is the total charge?

 A. \$12 B. \$7 C. \$1 D. \$84

9) Which expression matches “the difference of 11 and the quotient of a number u and 3”?

 A. $11 - \frac{u}{3}$ B. $\frac{11 - u}{3}$ C. $\frac{u}{3} - 11$ D. $\frac{11}{u - 3}$ 

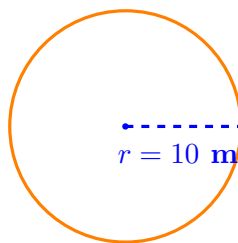


4)

What is the area of the rectangle?

- A. 20 square units
- B. 25 square units
- C. 30 square units
- D. 35 square units

Circular Field



5)

A circular field has a radius of 10 meters. Using $\pi \approx 3.14$, what is the area?

- A. 31.4 m²
- B. 62.8 m²
- C. 314 m²
- D. 628 m²

4) A number line shows negative fractions. Point I is located at $-\frac{7}{10}$. Which statement is true?

- A. Point I is to the right of $-\frac{3}{5}$ D. Point I is at the same position as -0.6
- B. Point I is to the left of $-\frac{4}{5}$
- C. Point I is between $-\frac{3}{4}$ and $-\frac{2}{3}$

5) A submarine at -300 feet relative to sea level moves up 75 feet. What is its new depth?

6) The temperature drops by 4° each hour for 3 hours. What is the total change in temperature?

- A. 12° C. 7°
- B. -12° D. -7°

7) Which expression represents “the sum of a number n and 7, divided by 2”?

- A. $\frac{n}{2} + 7$ C. $2(n + 7)$
- B. $\frac{n + 7}{2}$ D. $n + \frac{7}{2}$

8) Solve for x : $\frac{x}{1.5} = 8$

- A. $x = 12$ C. $x = 9.5$
- B. $x = 6.5$ D. $x = 5.33$



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.



Scan me!
For more practice
& answers

Rhode Island Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(6.EE.C.9)** A proportional relationship has a constant ratio between variables. Its graph is a straight line through the origin, and the constant ratio is the constant of proportionality.
- Choice C is correct.** **(6.EE.B.8)** $-8 \leq x$ is equivalent to $x \geq -8$. The closed circle includes -8 , and the arrow points right toward greater values.
- The correct answer is 7.** **(6.EE.B.5)** Divide both sides by 2: $x = 7$.
- Choice C is correct.** **(6.G.A.1)** $A = \frac{1}{2} \times 19 \times 8 = 76 \text{ cm}^2$.
- Choice A is correct.** **(6.G.A.3)** Width = $24 \div 8 = 3$ units. Perimeter = $2(8 + 3) = 2(11) = 22$ units.
- Choice C is correct.** **(6.SP.B.4)** $-\frac{1}{4} = -0.25$, not -0.4 . The other pairs are equivalent.
- Choice B is correct.** **(6.NS.C.8)** Same x -coordinate (2): $|3 - (-2)| = |3 + 2| = 5$ units.
- Choice A is correct.** **(6.EE.A.3)** Total charge is rate times hours: $3 \times 4 = \$12$.
- Choice A is correct.** **(6.EE.A.3)** "The quotient of u and 3" is $\frac{u}{3}$. "The difference of 11 and" that quotient means $11 - \frac{u}{3}$.
- Choice B is correct.** **(6.EE.A.3)** Substitute $x = 8$: $\frac{3(8)}{4} = \frac{24}{4} = 6$.
- Choice D is correct.** **(6.EE.B.6)** First subtract 12 from n to get $n - 12$. Then double: $2(n - 12)$. Note: $2n - 12$ only doubles the number n , not the result of the subtraction.
- Choice C is correct.** **(6.EE.B.8)** $x > 3$ and $x < 9$ means x is between 3 and 9. Only 6 satisfies both: $6 > 3$ and $6 < 9$.
- Choice C is correct.** **(6.G.A.4)** $SA = 6s^2 = 6(9)^2 = 6(81) = 486 \text{ cm}^2$.
- Choice D is correct.** **(6.SP.A.3)** This question would produce the most variability: different students have different numbers of siblings (0, 1, 2, 3, etc.). The other questions have fixed or nearly-fixed answers across a group.
- Choice C is correct.** **(6.SP.A.2)** Distances from the mean (14): $|10 - 14| = 4$, $|12 - 14| = 2$, $|14 - 14| = 0$, $|16 - 14| = 2$, $|18 - 14| = 4$. $MAD = \frac{4+2+0+2+4}{5} = \frac{12}{5} = 2.4$.
- Choice B is correct.** **(6.SP.B.4)** The upper whisker extends from Q_3 to max: $29 - 19 = 10$ units long.
- Choice A is correct.** **(6.SP.B.5)** Standard deviation measures spread. Hawks' lower standard deviation ($8 < 14$) indicates more consistent scoring around their mean.
- Choice D is correct.** **(6.SP.B.4)** Values at least 24 are 24, 26, 28, 29, 30, 32, 35, for a total of 7 players.
- Choice B is correct.** **(6.NS.A.1)** $\frac{2}{9} = \frac{200}{900}$. So $\frac{2}{9} \times 900 = 1800 \div 9 = 200$ items.
- The correct answer is Both $|-13| = 13$ and $|13| = 13$ equal 13.** **(6.SP.B.4)** A: $|-13| = 13 \checkmark$. C: $|13| = 13 \checkmark$. B: opposite of 13 is -13 . D: $-|13| = -(13) = -13$. E: $|-13| + |13| = 13 + 13 = 26$. So only A and C equal 13.
- Choice C is correct.** **(6.RP.A.3)** Every valid pair must simplify to 3 : 4. The pairs 6 : 8, 9 : 12, and 15 : 20 all simplify to 3 : 4, but 12 : 15 simplifies to 4 : 5, so it does not match.
- Choice B is correct.** **(6.RP.A.2)** Divide ounces by pounds: $64 \div 4 = 16$ ounces per pound.
- Choice C is correct.** **(6.NS.A.1)** From the double number line: 18 liters in 3 minutes gives $18 \div 3 = 6$ liters per minute.
- Choice C is correct.** **(6.RP.A.3)** The ratio is butter:flour = 2:3. If butter = 8, the scale factor is $8 \div 2 = 4$. So flour = $3 \times 4 = 12$ cups. The point is (8, 12).
- Choice D is correct.** **(6.RP.A.3)** Percent means "per 100." So $72\% = \frac{72}{100}$.
- Choice B is correct.** **(6.RP.A.2)** Converting cups to fluid ounces requires multiplying by 8, not dividing. $3 \times 8 = 24$ fl oz.



Math Detective at Work

Hi, Math Detective!

◇ You did such a great job! You finished 8 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students 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
- ✓ Building Confidence



**PRACTICE TODAY.
SUCCEED 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.



Understand Key Concepts

Reinforce important math ideas aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



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

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.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS