

$\frac{2}{3}$

# FULL-LENGTH

$\frac{2}{4}$

# Rhode Island

$7 \times 8 =$

$0,25$



Aligned to State Standards

# RICAS

$7 \times 8$

# MATH

$56 \div 7$

Grade

# 5

$(a+b)^2$

# PRACTICE TESTS

Complete State Standards Review  
with Answer Key and  
Essential Math Skills Practice



**3 Full-Length Practice Tests**  
Aligned to State Standards



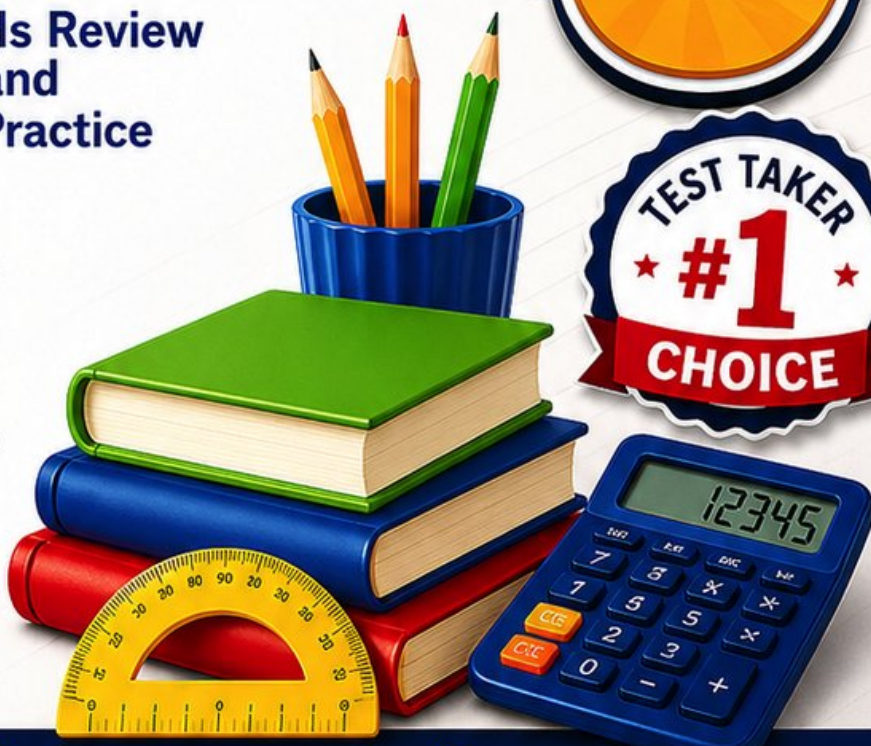
**Covers All Grade 5 Math Topics**  
Numbers & Operations, Fractions,  
Decimals, Geometry, Measurement,  
Data & Problem Solving



**Build Confidence**  
Strengthen Skills • Improve Accuracy  
• Boost Test Readiness



**Detailed Answer Key**  
Step-by-Step Explanations  
for All Questions



WRITTEN FOR  
GRADE 5 STUDENTS



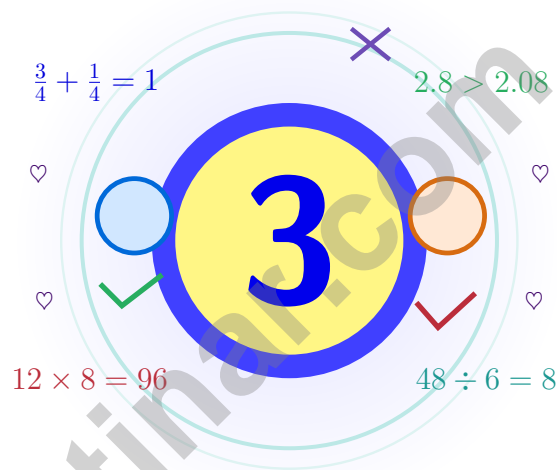
PERFECT FOR  
TEST PREP & REVIEW



CLASSROOM, HOME,  
OR SELF-STUDY USE

# 3 Rhode Island RICAS Grade 5 Math Practice Tests

*Ocean-state math for steady, careful thinkers*



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The Ocean State walk in ready to think.

**Jay Daie and Reza Nazari**



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# Open the Door, Rhode Island – Math Awaits

Ocean-state math for steady, careful thinkers

## An Invitation to Grade 5 in Rhode Island

Math is a lot like Narragansett Bay – small enough to see end to end, big enough to teach you patience.

Some questions will feel easy from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

### See

See the question fully before you start the math.

### Plan

Pick a strategy that fits the numbers in front of you.

### Build

Build the answer step by step, no shortcuts.

**A Rhode Island promise to yourself:** I will walk through each problem like a careful Newport shoreline morning – calm, attentive, and unhurried.

# A Simple Path Through This Book

A simple game plan that turns practice into real progress

## Step 1: Set

**Set the table – pencil ready, distractions gone.**

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

## Step 2: Solve

**Take one whole test in one quiet sitting.**

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

## Step 3: Look Back

**Walk through your answers without rushing.**

Circle missed questions, sort out what went sideways, and notice which skills are calling for more attention.

## Step 4: Climb

**Pick one or two skills to sharpen before next time.**

Read the explanation, fix the work, and carry that lesson forward into the next test.

## Practice Plan for Rhode Island Grade 5

<b>Week 1</b>	Test 1 sets your baseline. Notice what feels easy and what wobbles.
<b>Week 2</b>	Test 2 is for repair. Slow down on the topics that tripped you up.
<b>Week 3</b>	Test 3 is for proof. Show how steady your thinking has become.



Scan me

# Inside the Practice Tests

## What these practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Ocean State for the Rhode Island RICAS with the calm focus of a quiet harbor. The goal is bigger than getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, ruling out weak choices, and checking for reasonableness can save both time and points.

### Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually found.

### Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

**What strong work looks like on the RICAS:** the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers the question being asked.



# Table of Contents

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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

1 day = 24 hours (hr)    1 year = 52 weeks



1) A stadium has 42 rows of seats. Each row has 38 seats. How many seats are in the stadium?

- A. 1,590                       C. 1,600  
 B. 1,596                       D. 1,610

2) Rewrite  $\frac{7}{8}$  and  $\frac{5}{12}$  with the least common denominator.

- A.  $\frac{21}{24}$  and  $\frac{10}{24}$                        C.  $\frac{56}{96}$  and  $\frac{40}{96}$   
 B.  $\frac{14}{16}$  and  $\frac{10}{16}$                        D.  $\frac{28}{32}$  and  $\frac{20}{32}$

3) Which fraction is equivalent to  $\frac{9}{10}$  with denominator 30?

- A.  $\frac{18}{30}$                                    C.  $\frac{27}{30}$   
 B.  $\frac{21}{30}$                                    D.  $\frac{30}{30}$

4) Three teams share a prize of \$240. Each team then spends \$15 on supplies. Which expression represents how much each team has left?

- A.  $(240 - 15) \div 3$                        C.  $240 - 15 \times 3$   
 B.  $240 \div 3 + 15$                        D.  $(240 \div 3) - 15$

5) What is  $14 \div \frac{1}{3}$ ?

- A. 28                                       C. 42  
 B. 35                                       D. 48

6) Which statement best describes  $12 + 6 \times 4$  compared to  $(12 + 6) \times 4$ ?

- A. First is larger  
 B. Cannot tell  
 C. They are equal  
 D. Second is larger



7) If the population is  $15 \times 10^7$ , how many people?

- A. 15 million                       C. 15 billion  
 B. 150 million                       D. 150 thousand

8) A library has 5 shelves of display space. Each featured book set uses  $\frac{1}{8}$  of a shelf. How many featured book sets can fit?

- A. 40 sets                               C. 60 sets  
 B. 50 sets                               D. 70 sets

9) A square grid has a growing pattern:



Figure 1

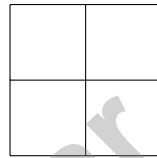


Figure 2

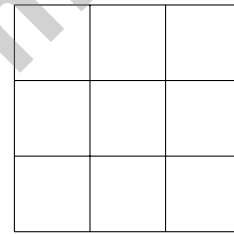


Figure 3

If the pattern continues, how many unit squares are in Figure 5?

- A. 20                                       C. 30  
 B. 25                                       D. 36



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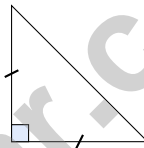
1) True or False: A shape can be a SQUARE without being a PARALLELOGRAM.

- A. True, because squares have equal sides.     C. True, because squares are not quadrilaterals.
- B. False, because every square has two pairs of parallel sides.     D. False, because squares are never shapes.

2) A concert venue has 1,250 seats. During the first show, 875 seats were sold. During the second show, 920 seats were sold. How many more seats were sold in the second show?

- A. 45 seats     C. 55 seats
- B. 50 seats     D. 60 seats

3) Which name describes a triangle with two equal sides and one right angle?



- A. Isosceles acute     C. Scalene obtuse
- B. Right isosceles     D. Equilateral

4) Miguel ran  $2\frac{3}{4}$  mi on Monday and  $3\frac{1}{4}$  mi on Tuesday. Total?

- A. 5 mi     C. 6 mi
- B.  $5\frac{1}{2}$  mi     D.  $6\frac{1}{2}$  mi



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong scores.**

Testinar.com



## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(5.NBT.B.5)** Multiply:  $42 \times 38 = 42 \times (40 - 2) = (42 \times 40) - (42 \times 2) = 1,680 - 84 = 1,596$  seats.
- 2) **Choice A is correct.** **(5.NF.A.2)** LCD of 8 and 12 is 24.  $\frac{7}{8} = \frac{21}{24}$  and  $\frac{5}{12} = \frac{10}{24}$ .
- 3) **Choice C is correct.** **(5.NF.A.2)** The denominator 10 is multiplied by 3 to make 30. Multiply the numerator by 3:  $\frac{9}{10} = \frac{27}{30}$ .
- 4) **Choice D is correct.** **(5.OA.A.2)** Each team's share is  $240 \div 3 = 80$ . After spending \$15, each team has  $80 - 15 = \$65$  left. The correct expression is  $(240 \div 3) - 15$ .
- 5) **Choice C is correct.** **(5.NF.B.7)**  $14 \div \frac{1}{3} = 14 \times 3 = 42$ .
- 6) **Choice D is correct.** **(5.OA.A.2)** In the first expression, only the 6 is multiplied by 4. In the second expression, the whole sum  $(12 + 6)$  is multiplied by 4, so the second expression is larger.
- 7) **Choice B is correct.** **(5.NBT.A.2)**  $15 \times 10^7 = 15 \times 10,000,000 = 150,000,000$ , which is 150 million.
- 8) **Choice A is correct.** **(5.NF.B.6)** Each shelf has 8 eighth-shelf spaces.  $5 \div \frac{1}{8} = 5 \times 8 = 40$  sets.
- 9) **Choice B is correct.** **(5.OA.B.3)** The figures are  $1 \times 1$ ,  $2 \times 2$ , and  $3 \times 3$  squares. Figure 5 would be  $5 \times 5 = 25$  unit squares.
- 10) **Choice A is correct.** **(5.G.B.4)** Figures with 4 equal sides include the rhombuses that are not squares and the squares:  $4 + 3 = 7$ .
- 11) **The correct answer is  $4\frac{1}{10}$ .** **(5.NF.A.1)**  $\frac{3}{5} = \frac{6}{10}$ ,  $\frac{1}{2} = \frac{5}{10}$ .  $(7 - 3) + (\frac{6}{10} - \frac{5}{10}) = 4\frac{1}{10}$ .
- 12) **Choice D is correct.** **(5.NBT.B.7)** Add:  $1.45 + 2.38 = 3.83$  m (hundredths:  $5 + 8 = 13$ , regroup; tenths:  $4 + 3 + 1 = 8$ ; ones:  $1 + 2 = 3$ ).
- 13) **Choice A is correct.** **(5.NBT.A.2)**  $28 \times 20,000$  is  $28 \times 2$  with four zeros attached. Since  $28 \times 2 = 56$ , the product is 560,000.
- 14) **Choice C is correct.** **(5.MD.C.3)** Each layer has 14 unit cubes. Since  $56 \div 14 = 4$ , the prism has 4 layers, so the height is 4 units.
- 15) **Choice C is correct.** **(5.NBT.A.4)** For 4.251: thousandths =  $1 < 5$ , keep hundredths  $5 \rightarrow 4.25$ . For 4.259: thousandths =  $9 \geq 5$ , round hundredths 5 up to 6  $\rightarrow 4.26$ .
- 16) **Choice D is correct.** **(5.MD.C.5)** The base area is  $7 \times 6 = 42$  square feet. Since  $168 \div 42 = 4$ , the height is 4 ft.
- 17) **Choice D is correct.** **(5.NF.B.6)** The one-fifth piece is the amount being shared into 2 equal parts. So the matching division equation is  $\frac{1}{5} \div 2 = ?$ .
- 18) **Choice C is correct.** **(5.MD.B.2)** Count the X marks above each value. 5 has 4 marks, which is more than 2 (1 mark), 3 (3 marks), 4 (2 marks), or 6 (2 marks).
- 19) **Choices A, B are correct.** **(5.NBT.A.3)** 0.25 is twenty-five hundredths, and it can also be written as  $0.2 + 0.05$ . C equals 2.5, and D equals 0.025.
- 20) **Choice C is correct.** **(5.NBT.A.2)**  $5.08 \times 1,000 = 5,080$ . The digits shift three places to greater place values.
- 21) **The correct answer is  $\frac{2}{3}$ .** **(5.NF.A.2)**  $\frac{4}{5} = \frac{12}{15}$ . Difference:  $\frac{10}{15} = \frac{2}{3}$ .
- 22) **Choice A is correct.** **(5.OA.A.2)** The first expression divides by 5 and then adds 10. The second expression divides 45 by a larger divisor,  $5 + 10$ , so it is much smaller.
- 23) **The correct answer is  $\frac{11}{12}$ .** **(5.NF.A.2)** LCD 12:  $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$ .
- 24) **Choice D is correct.** **(5.G.A.2)** Pairs are (2,1), (4,3), (6,5), (8,7). The third pair is (6, 5).
- 25) **Choice B is correct.** **(5.MD.C.4)** Check each product carefully. A:  $4 \times 3 \times 6 = 72$ . B:  $6 \times 2 \times 7 = 84$ . C:  $5 \times 3 \times 6 = 90$ . D:  $4 \times 5 \times 4 = 80$ . Only the second prism has volume  $84 \text{ cm}^3$ .
- 26) **Choice A is correct.** **(5.MD.C.5)** Use the rectangular-prism volume formula:  $8 \times 5 \times 7 = 280$ . So the volume is 280 cubic centimeters.
- 27) **Choice A is correct.** **(5.MD.C.4)** The base area is  $10 \times 4 = 40$  square meters. Since  $280 \div 40 = 7$ , the height is 7 m.
- 28) **Choice A is correct.** **(5.G.A.1)** In an ordered pair  $(x, y)$ , the first number tells how far to move right, and the second number tells how far to move up.



### A Mentor's Quiet Encouragement

---

#### To My Thoughtful Student,

◇ I want to take a moment, away from the noise of practice, to tell you something true: you have done excellent work. 3 practice tests is a real commitment. Most students do not finish what they start. You did. ◇

★ **What mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you tackle a problem today versus how you tackled it weeks ago. That growth is your real prize. ★

#### What I See In You

- **Determination:** DEEP. You don't quit when problems get tough.
- **Curiosity:** BRIGHT. You wonder why and how, not just "what's the answer."
- **Self-Awareness:** REAL. You know what you understand and what you're learning.
- **Kindness:** CONSISTENT. You're patient with yourself.

**Mentor's note:** on test day, treat yourself like you'd treat a friend. Be patient. Be encouraging. Be kind. The same skills that helped you finish 3 tests will carry you through the real one.

If you want to share a proud moment or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com). I'd love to hear from you!

**Jay Daie**

Your Math Mentor (Quietly Cheering)

# Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



## WHAT'S INSIDE:



### 3 Full-Length Grade 5 Math Practice Tests

Realistic test format to build familiarity and confidence.



### Covers All Essential Math Topics

Fractions, decimals, geometry, measurement, data, number operations, and more.



### Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



### Detailed Answer Key

Step-by-step explanations to help your child learn from mistakes and improve.



### Track Progress & Improve

Use score trackers to identify strengths and focus on areas that need more practice.



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- ✓ Improve accuracy and speed
- ✓ Reduce test anxiety
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