

10 COMPLETE

Rhode Island

RICAS

GRADE 5

MATH

PRACTICE TESTS

Standards-Based Review with
Mixed Practice and Detailed Answer Key



10 Complete Practice Tests

Build confidence and test readiness



Standards-Based Review

Covers key Grade 5 math standards



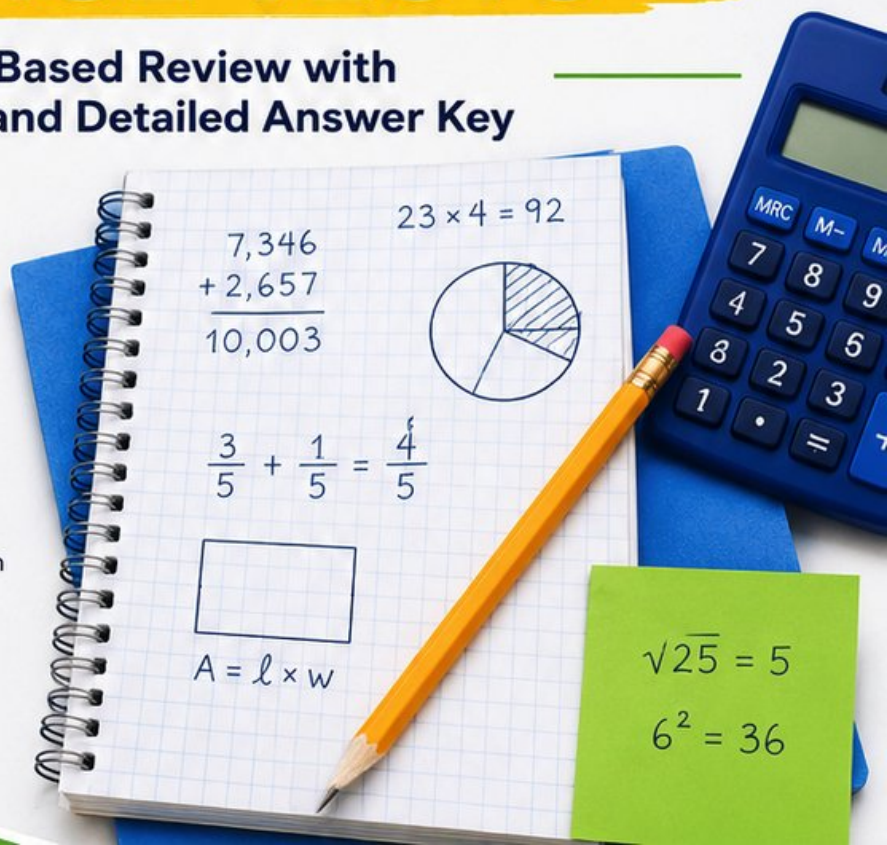
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

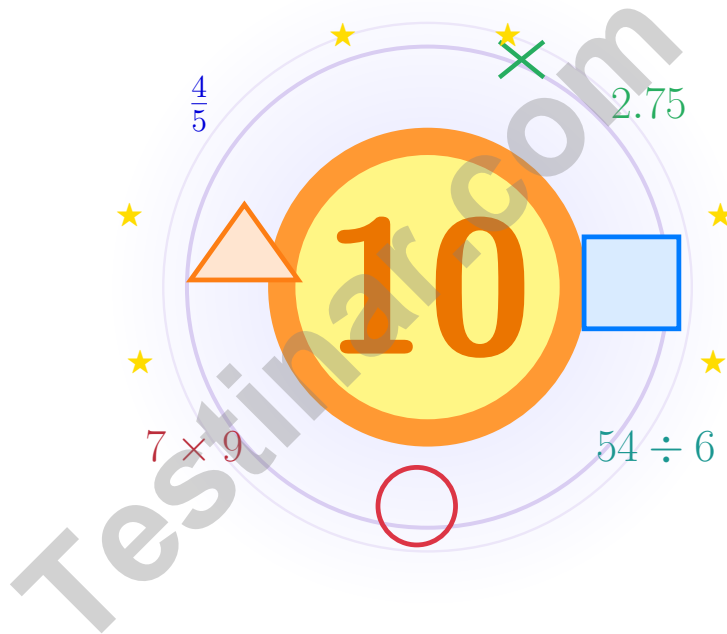
Step-by-step explanations for every question



PREPARE.
PRACTICE.
SUCCEED!

10 Rhode Island RICAS Grade 5 Math Practice Tests

Bright review, thoughtful practice, and steady confidence for Grade 5



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

Jay Daie and Reza Nazari



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Welcome!

This book is a place to practice bravely and think clearly

Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

Read

Slow down and understand the task.

Solve

Show clear steps and good choices.

Learn

Use mistakes as clues for what comes next.

A strong habit from the start: keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



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How to Use This Book

A simple routine that turns practice into real progress

Step 1

Warm up with the quick review.

Spend a few minutes refreshing the ideas before the test begins.

Step 2

Take one full practice test.

Work in a calm spot and aim for careful thinking before speed.

Step 3

Check your work honestly.

Circle missed questions and notice which skills need another look.

Step 4

Fix and reflect.

Read the explanation, repair the work, and bring that lesson into the next test.



A Good 10-Week Rhythm

Week 1	Take Test 1 and notice your starting strengths.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen multiplication and division checks.
Week 4	Take Test 4 and focus on fractions and decimals.
Week 5	Take Test 5 and watch your labels and units closely.
Week 6	Take Test 6 and practice calmer pacing.
Week 7	Take Test 7 and compare your habits with the earlier weeks.
Week 8	Take Test 8 and focus on tidy, checkable work.
Week 9	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
Week 10	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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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

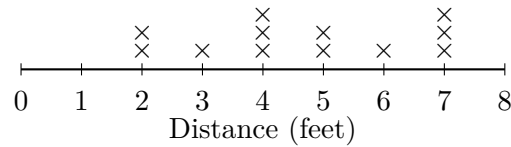
1 hour (hr) = 60 minutes (min) 1 year = 12 months

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



- 1) The line plot displays distances (in feet) that students jumped in gym class:

Long Jump Distances



What is the range of jump distances?

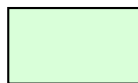
- A. 3 feet
- B. 4 feet
- C. 5 feet
- D. 6 feet
- 2) Evaluate: $7 \times (3 + 2) - (4 + 1)$
- A. 25
- B. 30
- C. 35
- D. 40
- 3) A recipe calls for 2.5 cups of flour. You already have 1.3 cups. How many more cups do you need?
- A. 1.2 cups
- B. 0.9 cups
- C. 1.1 cups
- D. 1.5 cups
- 4) Which statement is true?
- A. $\frac{1}{2} \times \frac{1}{3} = \frac{1}{5}$
- B. $\frac{2}{3} \times \frac{2}{3} = \frac{4}{6}$
- C. $\frac{3}{4} \times \frac{1}{4} = \frac{4}{16}$
- D. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$



5) Look at the two quadrilaterals. Which property do they NOT share?



Square



Rectangle

- A. Four right angles
- B. Two pairs of parallel sides
- C. All sides are congruent
- D. Opposite sides are parallel
- 6) Section A is $4\frac{2}{3}$ m, Section B is $3\frac{1}{3}$ m. Total?
- A. 7 m
- B. $7\frac{1}{3}$ m
- C. 8 m
- D. $8\frac{1}{3}$ m
- 7) Write the number that is 10 times 0.045.

Record your answer in the space provided.

- 8) A student says $4 \div \frac{1}{2} = 2$. Which statement best explains the student's error?
- A. The student subtracted $\frac{1}{2}$ from 4.
- B. The student divided 4 by 2.
- C. The student found one-half of 4 instead of finding how many halves are in 4.
- D. The student changed 4 to $\frac{1}{4}$.



Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

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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)

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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)

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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) What is $\frac{2}{3} \times 6$?

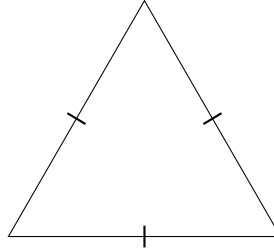
A. $\frac{12}{5}$

B. 4

C. $\frac{2}{18}$

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

2) Look at the triangle below. What type of triangle is it based on the marks on its sides?



tick marks show equal sides

A. Scalene triangle

B. Isosceles triangle

C. Equilateral triangle

D. Right triangle

3) Compare: $(8 \times 12) \times 5$ $8 \times (12 \times 5)$

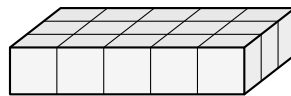
A. >

B. <

C. =

D. Cannot tell

4) A rectangular box is 5 units long, 3 units wide, and 1 unit tall. How many unit cubes does it contain?



A. 8 unit cubes

B. 15 unit cubes

C. 12 unit cubes

D. 20 unit cubes



40) A student needs to save \$156.00 for a trip. He already has \$18.50 and saves \$12.50 each week. After how many more weeks will he have enough money?

A. 13 weeks

C. 11 weeks

B. 12 weeks

D. 14 weeks

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End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(5.MD.B.2)** The greatest distance is 7 feet and the least is 2 feet. Range = $7 - 2 = 5$ feet.
- 2) **Choice B is correct.** **(5.OA.A.1)** Simplify both groups: $3 + 2 = 5$ and $4 + 1 = 5$. Now the expression is $7 \times 5 - 5 = 35 - 5 = 30$.
- 3) **Choice A is correct.** **(5.NBT.B.7)** $2.5 - 1.3 = 1.2$ cups of flour needed.
- 4) **Choice D is correct.** **(5.NF.B.4)** Check each: A is $\frac{1}{6}$ not $\frac{1}{5}$. B is $\frac{4}{9}$ not $\frac{4}{6}$. C is $\frac{3}{16}$ not $\frac{4}{16}$. D is correct.
- 5) **Choice C is correct.** **(5.G.B.3)** Both shapes have 4 right angles, 2 pairs of parallel sides, and opposite sides parallel. But a rectangle does NOT require all sides to be congruent; only a square does.
- 6) **Choice C is correct.** **(5.NF.A.1)** Add: $4\frac{2}{3} + 3\frac{1}{3} = 8$.
- 7) **The correct answer is 0.45.** **(5.NBT.A.1)** Multiplying by 10 moves the decimal point one place right: $0.045 \rightarrow 0.45$.
- 8) **Choice C is correct.** **(5.NF.B.7)** The student found $4 \times \frac{1}{2} = 2$. But $4 \div \frac{1}{2}$ asks how many halves are in 4 wholes. There are 2 halves in each whole, so 4 wholes contain $4 \times 2 = 8$ halves.
- 9) **Choice D is correct.** **(5.G.A.2)** Check: (3, 1), (5, 3), and (7, 5) each have a second coordinate 2 less than the first. For (8, 7), $8 - 2 = 6$, not 7.
- 10) **Choice B is correct.** **(5.OA.A.2)** The phrase “the sum of 3 and 5” means $(3 + 5)$. Multiplying that sum by 2 gives $(3 + 5) \times 2$.
- 11) **Choice A is correct.** **(5.OA.A.2)** Dividing by 2 makes the second half as large, so the first is twice the second.
- 12) **Choice D is correct.** **(5.MD.C.3)** Doubling one dimension makes twice as many equal layers or rows. Since the other dimensions stay the same, the total number of cubic units doubles.
- 13) **Choice C is correct.** **(5.MD.C.5)** The base area is $9 \times 9 = 81$ square feet. Since $324 \div 81 = 4$, the height is 4 ft.
- 14) **Choice D is correct.** **(5.NF.B.6)** The model counts sixths inside 3 wholes. So the matching equation is $3 \div \frac{1}{6} = n$.
- 15) **Choice C is correct.** **(5.NF.B.5)** Since $\frac{1}{4} < \frac{1}{2}$, the product $10 \times \frac{1}{4}$ is smaller. $10 \times \frac{1}{4} = 2\frac{1}{2}$ and $10 \times \frac{1}{2} = 5$.
- 16) **The correct answer is 508.072.** **(5.NBT.A.3)** Whole part: 508. Fractional part: 72 thousandths means 0 tenths, 7 hundredths, 2 thousandths: 508.072.
- 17) **Choice C is correct.** **(5.MD.C.5)** Total cost: $42.75 + 38.50 + 55.25 = 136.50$ dollars. Change: $150.00 - 136.50 = 13.50$ dollars.
- 18) **Choice B is correct.** **(5.MD.B.2)** The pieces at least 1 foot long are 1, $1\frac{1}{4}$, and $1\frac{1}{2}$ feet. Their total is $3\frac{3}{4}$ feet.
- 19) **The correct answer is 1000.** **(5.NBT.A.2)** 10^3 is a 1 followed by 3 zeros: 1,000.
- 20) **Choice A is correct.** **(5.NF.A.1)** Simplify: $\frac{4}{12} = \frac{1}{3}$. Then $\text{LCM}(3,5) = 15$. $\frac{1}{3} = \frac{5}{15}$ and $\frac{2}{5} = \frac{6}{15}$. $\frac{5}{15} + \frac{6}{15} = \frac{11}{15}$.
- 21) **Choices A, B are correct.** **(5.NF.B.6)** The half-pound is shared equally among 3 sandwiches. Each share is $\frac{1}{2} \div 3 = \frac{1}{6}$ pound, so A and B are true.
- 22) **Choice B is correct.** **(5.NBT.A.4)** 7.19 has a tenths digit of 1 and hundredths digit of 9. Since $9 \geq 5$, round the tenths up from 1 to 2, giving 7.2.
- 23) **Choice C is correct.** **(5.NBT.B.7)** Add: $2.34 + 3.67 = 6.01$; then $6.01 + 1.89 = 7.90$ kg.
- 24) **Choice A is correct.** **(5.MD.C.4)** Total volume: $4 \times 3 \times 2 = 24$ cubes. Already placed: 15. Needed: $24 - 15 = 9$ unit cubes.
- 25) **Choice D is correct.** **(5.NBT.A.2)** The student forgot the key concept: dividing by powers of 10 requires shifting the decimal point left. The correct answer is $8,300 \div 1,000 = 8.3$.
- 26) **Choice C is correct.** **(5.MD.A.1)** 5 lengths: $5 \times 15 = 75$ meters. 3 widths: $3 \times 8 = 24$ meters. Total: $75 + 24 = 99$ meters. Convert: $99 \times 100 = 9,900$ centimeters.
- 27) **Choice D is correct.** **(5.NBT.B.5)** Multiply: $112 \times 7 = (100 \times 7) + (10 \times 7) + (2 \times 7) = 700 + 70 + 14 = 784$.
- 28) **Choice C is correct.** **(5.G.B.4)** A rectangle must have four right angles and opposite sides parallel, but the sides do not have to all be equal. A square has all equal sides, but a rectangle does not.
- 29) **The correct answer is 4 cm.** **(5.MD.C.5)** The base area is $9 \times 5 = 45$ square centimeters. Divide 180 by 45 to get a height of 4 centimeters.



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. 10 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 10 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. I'd love to hear from you!

Jay Daie

Your Math Mentor (Quietly Cheering)

PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



10

COMPLETE PRACTICE TESTS

- ✓ Realistic. Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.

THIS BOOK HELPS YOUR CHILD:



Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



Track Progress

Identify strengths and target areas with purposeful practice.



Achieve Success

Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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