

9

Georgia

Milestones

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



9
FULL-LENGTH
PRACTICE
TESTS

$$2,345 \times 6 = 14,070$$



$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

$$7.2 \div 0.8 = 9$$



$$(12 + 8) \div 4 = 5$$



Build Confidence



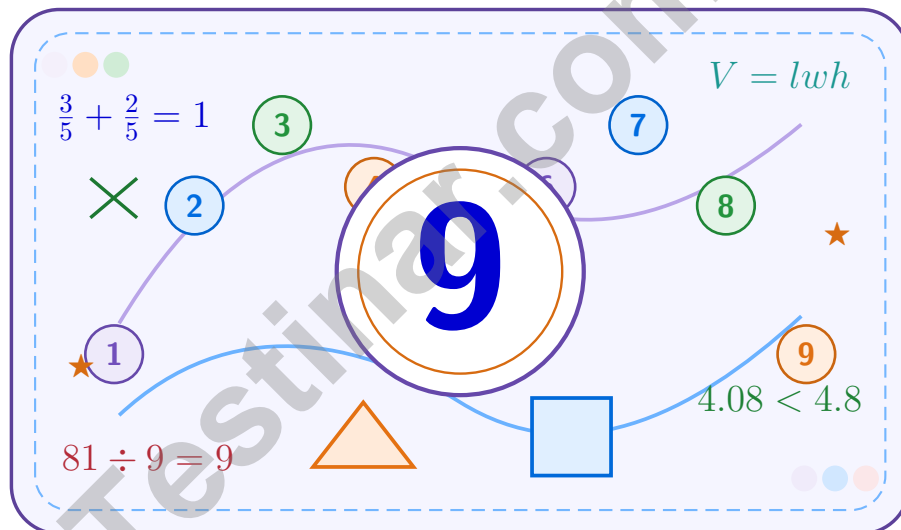
Improve Math Skills



Achieve Success

9 Georgia Milestones Grade 5 Math Practice Tests

A nine-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Nine full tests, focused skill boosters, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these nine tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

How to Use This Book

A simple practice routine that turns nine tests into steady growth

A Nine-Session Climb Map

Session	Mission Focus
1	Take Test 1; review place value and operation slips.
2	Take Test 2; keep work neat and easy to read.
3	Take Test 3; give extra time to fractions and decimals.
4	Take Test 4; slow down on word problems and units.
5	Take Test 5; compare scores and habits with earlier rounds.
6	Take Test 6; notice which habits are now automatic.
7	Take Test 7; explain open-ended answers clearly.
8	Take Test 8; review topics that still need attention.
9	Take Test 9; finish with calm, careful, confident work.

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.



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Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Georgia Milestones. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

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

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



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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)

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

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

TIME

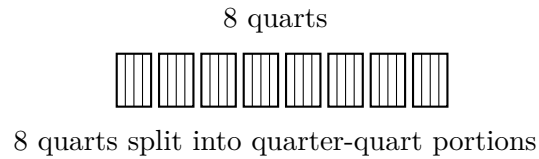
1 minute (min) = 60 seconds (sec) 1 week = 7 days

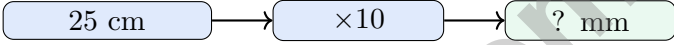
1 hour (hr) = 60 minutes (min) 1 year = 12 months

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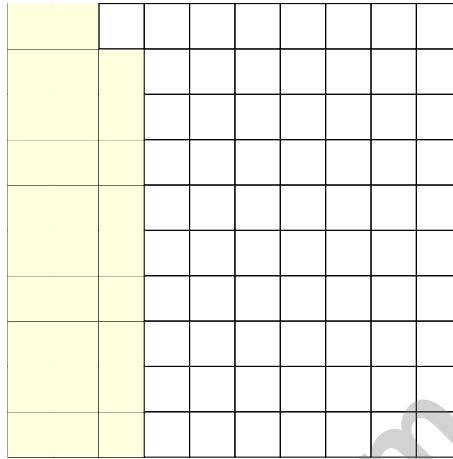
- 1) A gardener has 8 quarts of water. Each plant needs $\frac{1}{4}$ quart. How many plants can be watered?



- A. 8
 C. 24
 B. 16
 D. 32
- 2) How many millimeters are in 25 centimeters?
- 
- A. 2.5 mm
 C. 250 mm
 B. 25 mm
 D. 2,500 mm
- 3) A toy block is a rectangular prism with volume 96 cm^3 and base area 32 cm^2 . How tall is it?
- A. 2 cm
 C. 4 cm
 B. 3 cm
 D. 5 cm
- 4) Marcus has $\frac{1}{2}$ of a pizza. Sofia has $\frac{1}{3}$ of a pizza. To compare their amounts, which denominator should they use?
- A. 2
 C. 5
 B. 3
 D. 6



- 5) Decimal-grid visual: a 10×10 grid with 29 squares shaded. Write the decimal.



- A. 0.92
- B. 29
- C. 2.9
- D. 0.29
- 6) Which two decimals are equivalent?
- A. 0.205 and 0.25
- B. 0.302 and 0.32
- C. 0.750 and 0.75
- D. 0.601 and 0.61
- 7) A meter strip that is 0.8 meter long is divided into 10 equal parts. What is the length of each part?
- A. 8 meters
- B. 0.008 meter
- C. 0.80 meter
- D. 0.08 meter



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CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
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WEIGHT AND MASS

Customary	Metric
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1) Write the expanded form of 2.34 using place values.

A. $2 + 3 + 4$

C. $2 + 0.03 + 0.4$

B. $20 + 30 + 4$

D. $2 + 0.3 + 0.04$

2) A grocery store receives a shipment of 2,160 apples. The apples are packed in boxes of 24. How many boxes are in the shipment?

 A. 85 boxes

 C. 90 boxes

 B. 95 boxes

 D. 100 boxes

3) A bird feed mixture is $\frac{3}{10}$ sunflower seeds and $\frac{2}{10}$ millet. What fraction of the mixture is made of other seeds?

A. $\frac{1}{10}$

C. $\frac{5}{10}$

B. $\frac{3}{10}$

D. $\frac{7}{10}$

4) A box is filled with unit cubes. If the base is 4 unit cubes long and 3 unit cubes wide, and there are 5 layers, what is the volume?

Box
Base: 4×3 , Layers: 5

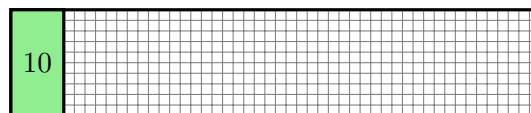
 A. 12 cubic units

 C. 35 cubic units

 B. 20 cubic units

 D. 60 cubic units

5) In a thousandths model, 1 whole is divided into 1000 equal small squares. How many small squares equal one hundredth?



Each tiny square is one thousandth; shaded strip is one hundredth.

 A. 1

 C. 100

 B. 10

 D. 1000


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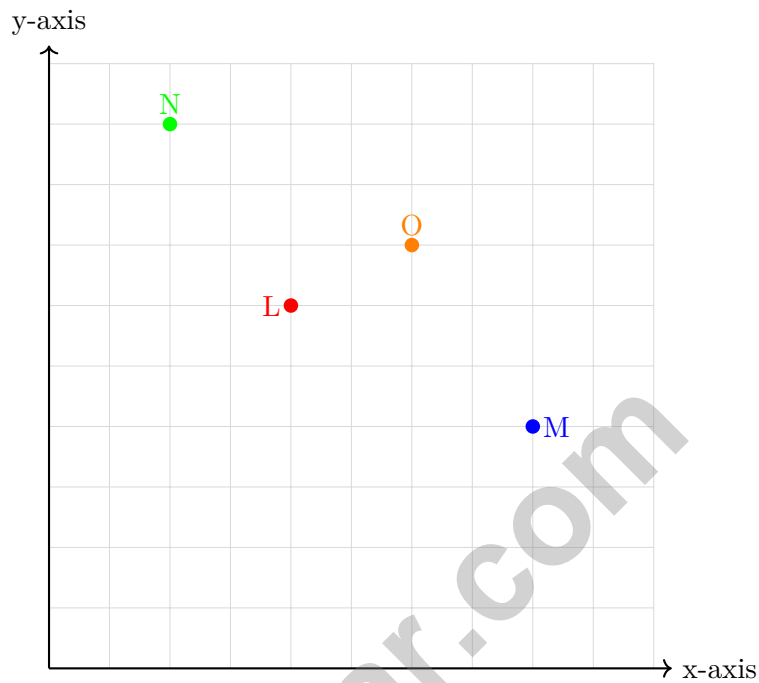
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1) Which point is highest on the grid?



- A. L
- B. M
- C. N
- D. O

2) A composite solid is made from two non-overlapping rectangular prisms. One prism is 8 cm by 5 cm by 3 cm. The other prism is 4 cm by 5 cm by 3 cm. Find the total volume and explain your work.

Record your answer in the space provided.



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1) What is 45×7 ?

A. 305

C. 325

B. 315

D. 350

2) Coordinate Pattern:

x	y
1	2
2	5
3	8
4	11

Which rule describes the relationship?

A. Multiply the input by 3, then subtract

C. Double the input, then add 1

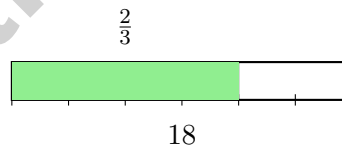
1

D. Multiply the input by 4, then subtract

B. Add 1 to the input

2

3) Find $\frac{2}{3}$ of 18.



A. 6

C. 12

B. 9

D. 18

4) Compare: $(47 + 13) - 10$ $47 + (13 - 10)$

A. $>$

C. $=$

B. $<$

D. Cannot tell



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 Georgia scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (5.NR.3.6) $8 \div \frac{1}{4} = 8 \times 4 = 32$. She can water 32 plants.
- 2) **Choice C is correct.** (5.MDR.7.4) 1 centimeter = 10 millimeters. Multiply: $25 \times 10 = 250$ mm.
- 3) **Choice B is correct.** (5.GSR.8.3) The base area is 32 square centimeters. Since $96 \div 32 = 3$, the block is 3 cm tall.
- 4) **Choice D is correct.** (5.GSR.8.3) A common denominator for $\frac{1}{2}$ and $\frac{1}{3}$ is 6. $\frac{1}{2} = \frac{3}{6}$ and $\frac{1}{3} = \frac{2}{6}$.
- 5) **Choice D is correct.** (5.NR.3.3) 29 out of 100 squares shaded represents $\frac{29}{100} = 0.29$.
- 6) **Choice C is correct.** (5.NR.4.2) $0.750 = 0.75$ because the trailing zero does not change value. The others are NOT equivalent.
- 7) **Choice D is correct.** (5.NR.4.2) Dividing by 10 makes each part one tenth as large. Move the decimal 1 place left: $0.8 \div 10 = 0.08$, so each part is 0.08 meter long.
- 8) **Choice B is correct.** (5.NR.1.2) The scaled bars show the relative sizes of the expressions. The longest bar is labeled $5 \times (6 + 8)$, so that expression has the greatest value.
- 9) **Choice B is correct.** (5.NR.2.2) B is correct because $18 \times 53 + 9 = 954 + 9 = 963$. A should have remainder 0, C should have quotient 19, and D should have remainder 0.
- 10) **Choice B is correct.** (5.NR.3.5) Multiplying by a factor less than 1 makes a positive quantity smaller. Since $\frac{3}{4} < 1$, the new length is less than the original.
- 11) **The correct answer is 96.** (5.NR.5.1) Inside brackets: $15 - 7 = 8$ and $4 \times 2 = 8$, so $8 + 8 = 16$. Then $6 \times 16 = 96$.
- 12) **Choice D is correct.** (5.NR.5.1) A, B, and D each equal 5. C gives $\frac{11}{4} \times 2 = \frac{11}{2} = 5\frac{1}{2}$, which is between 5 and 6.
- 13) **Choice D is correct.** (5.NR.3.5) Each output is 3 times the input: $1 \times 3 = 3$, $2 \times 3 = 6$, and $3 \times 3 = 9$. So the missing output for input 4 would be 12.
- 14) **Choice C is correct.** (5.MDR.7.4) To convert yards to feet, multiply by 3: $5 \text{ yd} \times 3 \text{ ft/yd} = 15$ feet.
- 15) **Choice D is correct.** (5.NR.1.2) The nonzero parts give $5 \times 8 = 40$, which already ends in one zero. Then the two factor zeros make 4,000, so the product has 3 zeros.
- 16) **Choice B is correct.** (5.NR.1.2) Dividing by a power of 10 shifts the value to a smaller place. $7,000 \div 10 = 700$ screws per box. This confirms the answer.
- 17) **Choice B is correct.** (5.NR.1.2) $0.045 \times 100 = 4.5$ (move decimal 2 places right).
- 18) **Choice D is correct.** (5.NR.1.2) Both points have the same y -coordinate (5), so they lie on a horizontal line. The distance is $8 - 2 = 6$ units.
- 19) **Choices A, B are correct.** (5.NR.3.3) A and B are equivalent to $\frac{3}{4}$ because the numerator and denominator were multiplied by the same factor. C and D do not reduce to $\frac{3}{4}$.
- 20) **Choice C is correct.** (5.PAR.6.2) The next Rule A value is 5 and the next Rule B value is 10, so the next ordered pair is (5, 10).
- 21) **The correct answer is about 4.** (5.NR.3.3) $7\frac{2}{5} \approx 7\frac{1}{2}$ and $3\frac{4}{7} \approx 3\frac{1}{2}$. Then $7\frac{1}{2} - 3\frac{1}{2} = 4$. Accept equivalent estimates that are clearly close to 4.
- 22) **Choice A is correct.** (5.NR.3.3) $5 \div \frac{1}{2} = 5 \times 2 = 10$ pieces.
- 23) **Choice D is correct.** (5.NR.1.1) All three angles (58° , 58° , and 64°) are less than 90 degrees, making this an acute triangle.
- 24) **Choice B is correct.** (5.NR.3.6) Use total amount divided by the size of one piece. The equation is $10 \div \frac{1}{2} = n$.
- 25) **Choice B is correct.** (5.PAR.6.2) The x -coordinate (6) is pounds of apples, and the y -coordinate (12) is the total price in dollars. So 6 pounds cost \$12.
- 26) **Choice D is correct.** (5.PAR.6.2) The four points form the corners of a rectangle with width 8 units (from $x = 1$ to $x = 9$) and height 7 units (from $y = 1$ to $y = 8$).
- 27) **Choice C is correct.** (5.MDR.7.1) First add the miles: $156 + 144 = 300$ miles. Then convert miles to feet: $300 \times 5,280 = 1,584,000$ feet.
- 28) **Choice A is correct.** (5.NR.3.5) $4 \times \frac{1}{2} = 2$. The product is less than 4 because the scaling factor is less than 1.



Champion in Training!

◇ What a season! You've completed 9 full practice tests, and that's the kind of training that builds real champions. Every test was a workout, and your math muscles are stronger today than they were before. Your stamina, focus, and accuracy have all leveled up. ◇

★ **Here's what every great coach knows:** the team that practices the most plays the best. You've put in the practice. You know the plays. You've handled the drills. Now it's almost game day, and you are ready. ★

Your Training Camp Stats

- **Math Stamina:** HIGH! You can stay focused for a full test.
- **Strategy Playbook:** LOADED! You have multiple ways to attack a problem.
- **Mistake Recovery:** STRONG! You can pick yourself up and keep going.
- **Game Day Mindset:** READY! You know how to stay calm under pressure.

Pre-game tip: the night before test day, get a great sleep. Eat a good breakfast. Bring a sharp pencil and a positive attitude. And remember—you have already trained for this. Trust your training.

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 Coaches (Game On!)

PRACTICE MORE. ACHIEVE MORE.

Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

9

**FULL-LENGTH
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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Aligned to Standards



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