

9 Georgia Milestones

GRADE 7

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

Program



9 PRINTED
TESTS



2 ONLINE
TESTS



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



BUILT FOR ACAP
Standards-Aligned



**STRENGTHEN
SKILLS**



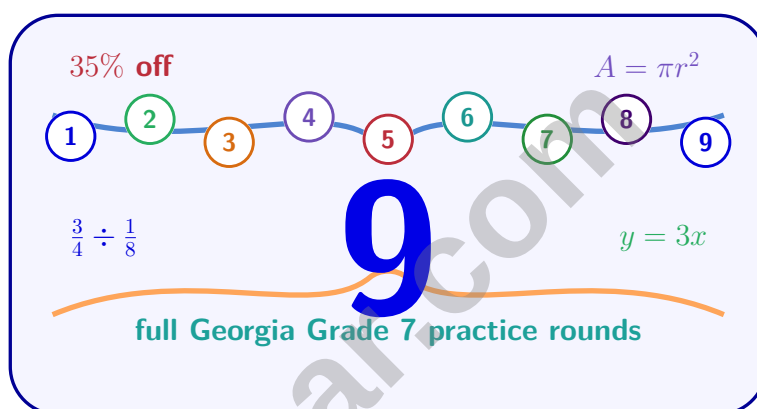
**SHARPEN
THINKING**



BE TEST-READY
Improve Performance

9 Georgia Milestones Grade 7 Math Practice Tests

*Standards-Aligned Georgia Practice for Proportional Reasoning, Expressions, Geometry,
Statistics, and Probability*



Nine complete 40-question Grade 7 Milestones practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Georgia Grade 7 Problem Solver!

Nine focused rounds for sharper Milestones math thinking

This book gives you nine full Grade 7 Milestones math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Georgia Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

A nine-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Georgia review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Nine Milestones tests, 360 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–9	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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& answers

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- 1) If the probability of rain on Monday is $\frac{1}{4}$ and the probability of rain on Tuesday is $\frac{1}{3}$, and these events are independent, what is the probability of NO rain on both days?

☐ A. $\frac{1}{6}$
☐ B. $\frac{1}{12}$

☐ C. $\frac{1}{7}$
☐ D. $\frac{1}{2}$

- 2) A garden bed is 8 meters long and 4 meters wide. If you scale all dimensions by a factor of $\frac{1}{2}$, what is the new length?



- 3) A photographer charges \$100 per hour for a session plus a 20% editing fee on the session cost. For a 3-hour session, what is the total bill?

☐ A. \$300
☐ B. \$420

☐ C. \$380
☐ D. \$360

- 4) A teacher records reading test scores in a stem-and-leaf plot but forgets to order the leaves. The plot shows: Stem 8 with leaves 5, 2, 7, 2. What should the ordered leaves be?

☐ A. 5, 2, 7, 2
☐ B. 2, 2, 5, 7

☐ C. 2, 5, 7, 2
☐ D. 7, 5, 2, 2

- 5) Two prisms have the same height of 10 cm. The first has a rectangular base 4 cm by 3 cm. The second has a triangular base with area 6 cm^2 . Which prism has a larger volume?

☐ A. The rectangular prism
☐ B. The triangular prism

☐ C. Both have the same volume
☐ D. Cannot be determined



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6) A circle has a radius of 5 inches. What is its diameter?

☐ A. 2.5 inches

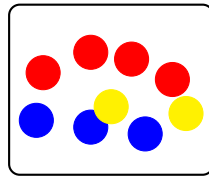
☐ C. 10 inches

☐ B. 5 inches

☐ D. 15 inches

7) A bag contains 4 red marbles, 3 blue marbles, and 2 yellow marbles. What is the probability of drawing a blue marble?

Bag of marbles



☐ A. $\frac{3}{9}$

☐ C. $\frac{2}{9}$

☐ B. $\frac{4}{9}$

☐ D. $\frac{3}{4}$

8) A student makes an error when finding a scale. The actual length is 120 feet and the model is 6 inches. The student writes the scale as 6 : 120. What is the correct scale?

☐ A. 1 : 20

☐ C. 240 : 1

☐ B. 6 : 120 (the student is correct)

☐ D. 1 : 240

9) In a sample of 140 workers, 35 work the night shift. The company employs 4200 people. How many workers are expected to work the night shift?



10) A retailer sells an item for \$110 after marking up the cost by 10%. What was the original cost?

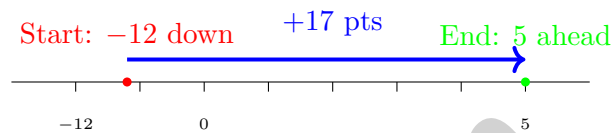
☐ A. \$99

☐ C. \$121

☐ B. \$95

☐ D. \$100

11) In a game, Team A was down 12 points (represented as -12). They scored 17 points. How many points ahead are they now?



☐ A. -29 points

☐ C. 5 points

☐ B. -5 points

☐ D. 29 points

12) What is 50% of 180?

☐ A. 60

☐ C. 80

☐ B. 70

☐ D. 90

13) For side lengths 9, 12, and 15, compute $9^2 + 12^2 - 15^2$.



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1) Which of the following does NOT represent a proportional relationship?

☐ A. $y = 6x$

☐ C. $y = x + 2$

☐ B. $y = 0.5x$

☐ D. $y = \frac{3}{4}x$

2) What is $-7 - (-7)$?

☐ A. -14

☐ C. 14

☐ B. 7

☐ D. 0

3) You can buy 8 pencils for $\frac{1}{2}$ dollar. How much does one pencil cost?

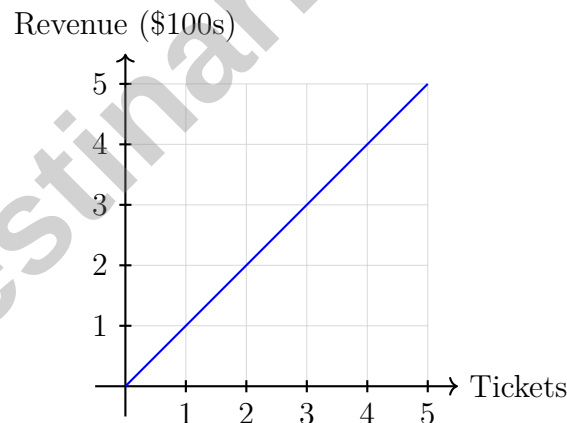
☐ A. \$0.04

☐ C. \$0.08

☐ B. \$0.16

☐ D. \$0.0625

4) The graph below shows the relationship between number of tickets and total revenue. Which statement is true?

☐ A. Not proportional; points are not connected☐ C. Proportional; slope is negative☐ B. Not proportional; too steep☐ D. Proportional; line passes through origin

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5) A proportional relationship is given by the equation $y = 2.4x$. Which point does NOT lie on the line?

☐ A. (1, 2.4)

☐ C. (10, 24)

☐ B. (5, 12)

☐ D. (2, 5)

6) Factor: $6ab - 9b + 3b$

☐ A. $3b(2a - 2)$

☐ C. $b(6a - 9 + 3)$

☐ B. $3(2ab - 3b + b)$

☐ D. $3b(2a)$

7) A rectangular prism has length 8 m, width 5 m, and height 2 m. Find the surface area.

☐ A. 80 m^2

☐ C. 132 m^2

☐ B. 112 m^2

☐ D. 176 m^2

8) A researcher runs two independent simulations of the same event. Simulation 1 uses 100 trials and estimates probability 0.48. Simulation 2 uses 500 trials and estimates probability 0.52. Which simulation is likely to be a more reliable estimate of the true probability?

☐ A. Simulation 1, because it has fewer trials

☐ C. Simulation 2, because it has more trials

☐ B. Simulation 1, because the estimate is closer to 0.50

☐ D. Both are equally reliable

9) A survey asks: "How many hours did you study for math?" This is a:

☐ A. Biased question

☐ C. Leading question

☐ B. Neutral question

☐ D. Voluntary response question



1) What is 35% of 400?

☐ A. 120

☐ C. 140

☐ B. 130

☐ D. 150

2) A student solved $4x - 3 > 5$ and got $x > 2$. Which is the correct next step to verify this?

☐ A. Check $x = 2$: $4(2) - 3 = 5 \not> 5$ ✓, so the boundary is correct.

☐ C. Check $x = 3$: $4(3) - 3 = 9 > 5$ ✓, so values above 2 work.

☐ B. Check $x = 1$: $4(1) - 3 = 1 \not> 5$ ✓, so values below 2 don't work.

☐ D. Flip the sign: $x < 2$ (students must flip for negative coefficients).

3) A square in a scale drawing has a side length of 2 cm. The scale is 1 cm : 3 m. What is the area of the actual square in square meters?

☐ A. 9 m²

☐ C. 36 m²

☐ B. 12 m²

☐ D. 72 m²

4) A cone is sliced horizontally (parallel to its circular base). What is the shape of the cross-section?

☐ A. Rectangle

☐ C. Circle

☐ B. Triangle

☐ D. Ellipse

5) Two angles form a linear pair. One angle measures 91° . What is the measure of the other angle?

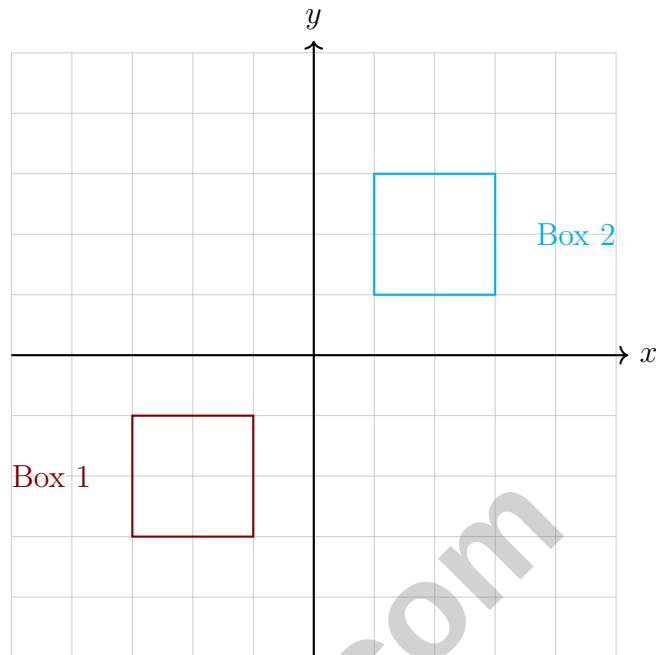
☐ A. 1°

☐ C. 45°

☐ B. 89°

☐ D. 179°





6)

Box 1 is transformed to Box 2. A student claims this is a reflection over the line $y = x$. Is the student correct? Why or why not?

- ☐ A. Yes; the coordinates are swapped ☐ C. Yes; dimensions are preserved
☐ B. No; this is a 180° rotation plus translation ☐ D. No; reflection over $y = x$ would map $(-3, -3)$ to $(-3, -3)$, not $(1, 1)$

7) Two triangles are similar. The sides of the smaller triangle are 3, 4, and 5. The longest side of the larger triangle is 15. What is the length of the shortest side of the larger triangle?

- ☐ A. 6 ☐ C. 9
☐ B. 8 ☐ D. 12



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Georgia Milestones Grade 7 Practice Test Answer Keys**How to use this section with a Grade 7 student:**

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Georgia Milestones practice test.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (7.SP.5-7.SP.8) $P(\text{no rain Mon}) = 1 - \frac{1}{4} = \frac{3}{4}$; $P(\text{no rain Tues}) = 1 - \frac{1}{3} = \frac{2}{3}$. Both: $\frac{3}{4} \cdot \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$.
- 2) **The correct answer is 4.** (7.RP.1-7.RP.3) New length = $8 \times \frac{1}{2} = 4$ meters.
- 3) **Choice D is correct.** (7.RP.3) Session cost = $100 \times 3 = \$300$. Editing fee = $0.20 \times 300 = \$60$. Total = $300 + 60 = \$360$.
- 4) **Choice B is correct.** (7.SP.1-7.SP.4) Leaves must be arranged in ascending order. The values are 82, 82, 85, 87, so leaves in order are 2, 2, 5, 7.
- 5) **Choice A is correct.** (7.G.4-7.G.6) Rectangular: $V = 4 \times 3 \times 10 = 120 \text{ cm}^3$. Triangular: $V = 6 \times 10 = 60 \text{ cm}^3$. The rectangular prism is larger.
- 6) **Choice C is correct.** (7.G.4-7.G.6) Diameter is twice the radius: $2 \times 5 = 10$ inches.
- 7) **Choice A is correct.** (7.SP.5-7.SP.8) Total marbles = $4 + 3 + 2 = 9$. Blue marbles = 3. Probability = $\frac{3}{9} = \frac{1}{3}$.
- 8) **Choice D is correct.** (7.RP.1-7.RP.3) Convert to common units: 120 feet = 1440 inches. Scale = $6 : 1440 = 1 : 240$. Student forgot unit conversion.
- 9) **The correct answer is 1050.** (7.SP.1-7.SP.4) $\frac{35}{140} = \frac{x}{4200}$. Reduce: $\frac{1}{4} = \frac{x}{4200} \Rightarrow x = 1050$.
- 10) **Choice D is correct.** (7.RP.3) Selling price = cost $\times (1 + 0.10)$. So $110 = \text{cost} \times 1.10$, giving cost = $110 \div 1.10 = \$100$.
- 11) **Choice C is correct.** (7.NS.1b) Team A's score changes by: $-12 + 17 = 5$. They are now 5 points ahead.
- 12) **Choice D is correct.** (7.RP.3) 50% of 180 is $0.50 \times 180 = 90$.
- 13) **The correct answer is 0.** (7.G.1-7.G.5) Compute $81 + 144 - 225 = 0$. This confirms the side lengths satisfy the Pythagorean relationship, forming a right triangle.
- 14) **The correct answer is 22.** (7.EE.1-7.EE.2) The perimeter expression is $10t + 2$. With $t = 2$, the value is 22.
- 15) **Choice D is correct.** (7.RP.1-7.RP.3) The ratio salt:water is $3 : 12 = 1 : 4$, so $s = \frac{1}{4}w$.
- 16) **Choice D is correct.** (7.RP.3) Both A and B work, but A is more efficient. Using a proportion: $\frac{52}{100} = \frac{x}{650}$ gives $x = 338$ girls. Method A avoids extra steps.
- 17) **Choice B is correct.** (7.NS.1-7.NS.3) Balance = $250.80 - 45.50 - 32.75 + 60.00 = 232.55$ dollars.
- 18) **Choice B is correct.** (7.NS.1-7.NS.3) Place the decimal after the first digit: 2.4. Count places moved: 7 places left, so exponent is 7. Proper scientific notation requires $1 \leq a < 10$.
- 19) **Choice C is correct.** (7.G.1-7.G.5) Scale factor is 10. Actual dimensions: 40 cm $\times$ 24 cm. Perimeter: $2(40 + 24) = 128$ cm.
- 20) **The correct answer is A, C.** (7.G.4-7.G.6) Option A is correct (60 m^2). Option C is correct (18 m^2). The true total is $60 + 18 = 78 \text{ m}^2$, so D and
- 21) **Choice C is correct.** (7.G.4-7.G.6) Using $A = \pi r^2$ with $r = 10$: $A = \pi \times 10^2 = 100\pi \text{ in}^2$ (exact form).
- 22) **Choice C is correct.** (7.SP.1-7.SP.4) $4.5 \text{ symbols} \times 2 \text{ inches/symbol} = 9 \text{ inches}$.
- 23) **Choice C is correct.** (7.RP.1-7.RP.3) Proportional: no constant term. Option C has -7 (constant), so not proportional.
- 24) **Choice D is correct.** (7.RP.3) Simple interest = $\$2,500 \times 0.04 \times 3 = \300 . Total = $\$2,500 + \$300 = \$2,800$.
- 25) **Choice D is correct.** (7.NS.1-7.NS.3) Convert to common denominator 6: $1\frac{2}{6} + 2\frac{1}{6} = 3\frac{3}{6} = 3\frac{1}{2}$.
- 26) **Choice B is correct.** (7.EE.1-7.EE.2) The multiplier $1.12 = 100\% + 12\%$ means you pay 112% of the original price.
- 27) **Choice B is correct.** (7.EE.3-7.EE.4) Subtract 3: $4x = 12$. Divide by 4: $x = 3$.
- 28) **Choice A is correct.** (7.EE.4a) x uniforms at \$15 each costs $15x$. After subtracting the \$20 discount: $15x - 20 = 130$.
- 29) **Choice A is correct.** (7.NS.2) $-\frac{5}{8} \times \frac{4}{3} = -\frac{5 \times 4}{8 \times 3} = -\frac{20}{24} = -\frac{5}{6}$ (simplified). Negative times positive is negative. GCD(20,24)=4, so $\frac{20}{24} = \frac{5}{6}$.
- 30) **Choice C is correct.** (7.SP.5-7.SP.8) There are 4 red sections out of 8 total, so $P(\text{red}) = \frac{4}{8} = \frac{1}{2}$.
- 31) **Choice A is correct.** (7.RP.3) Net pay: Gross - taxes - deductions = $2000 - 240 - 153 = \$1607$.
- 32) **Choice C is correct.** (7.RP.3) $A = 500(1.03)^5 = 500 \times 1.1593 = 579.64 \approx 580$.



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Hi, Confident Learner!

◇ This high-stamina book gave you nine substantial Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. Grade 7 math can feel big because it brings together rational numbers, expressions, equations, geometry, probability, and data. ◇

★ **Remember this:** But big topics become manageable when you practice one skill at a time. That is what you have been doing with every test in this book. ★

Confidence Builders

- **Know the Goal:** Identify what the question asks.
- **Use Vocabulary:** Math words point to math actions.
- **Show Work:** Give yourself something to check.
- **Celebrate Effort:** Practice is proof that you are moving.

Grade 7 test-day tip: When reviewing, do not only mark wrong answers. Write one sentence about what you learned from each one.

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

Jay Daie

Your Confidence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **9** full-length Math practice tests and **2** online tests to help Grade 7 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

9 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations



MORE PRACTICE. GREATER RESULTS.

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

WHAT YOU'LL 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 with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Proportions
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Percents & Decimals
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ Algebraic Thinking
- ✓ And More!



2 ONLINE TESTS

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



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

Don't lose it—your extra practice and success start here!



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