

8

Georgia Milestones

GRADE 7

MATH

PRACTICE TESTS



**Standards Aligned
Problem Solving**

For Comprehensive
Assessment Programs



**8 PRINTED
TESTS**



**2 ONLINE
TESTS**



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



BUILD CONFIDENCE



STRENGTHEN SKILLS



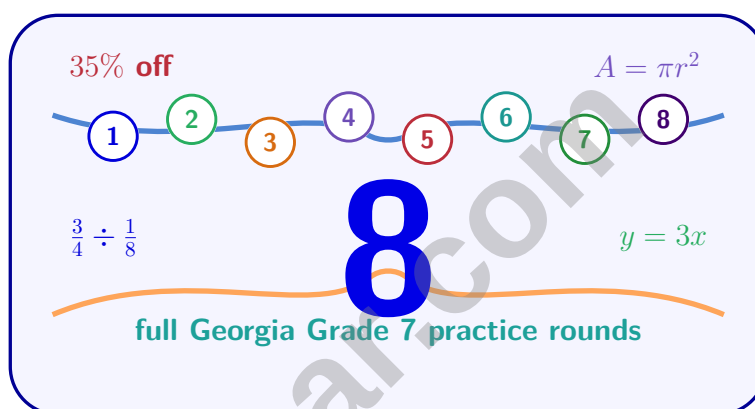
THINK SMARTER



BE TEST-READY

8 Georgia Milestones Grade 7 Math Practice Tests

Smart practice around Georgia Grade 7 percent applications, equations, geometry, samples, box plots, and probability



Eight 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!

Eight focused rounds for sharper Milestones math thinking

This book gives you eight 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

An eight-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?

Eight Milestones tests, 320 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 7–8	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) A simulation models the probability of a customer making a purchase as $\frac{2}{5}$. Which of the following spinners would be most appropriate for this simulation?

- ☐ A. A spinner with 3 equal sections, 1 shaded
- ☐ B. A spinner with 5 equal sections, 2 shaded
- ☐ C. A spinner with 10 equal sections, 4 shaded
- ☐ D. A spinner with 5 equal sections, 3 shaded

2) A student evaluates $2x + 3y$ when $x = -4$ and $y = 2$, and writes: " $2(-4) + 3(2) = -8 + 6 = -2$." Is this correct?

- ☐ A. No, the error is in the multiplication of $2x$
- ☐ B. No, the error is in the addition step
- ☐ C. No, negative times positive is positive
- ☐ D. Yes, the answer is -2

3) Combine: $(10g + 6) + (2g - 8) - (3g + 1)$

- ☐ A. $9g - 3$
- ☐ B. $9g + 13$
- ☐ C. $15g - 3$
- ☐ D. $9g - 15$

4) Solve: $\frac{1}{2}x + 3 = 8$

- ☐ A. $x = 5$
- ☐ B. $x = 8$
- ☐ C. $x = 10$
- ☐ D. $x = 16$

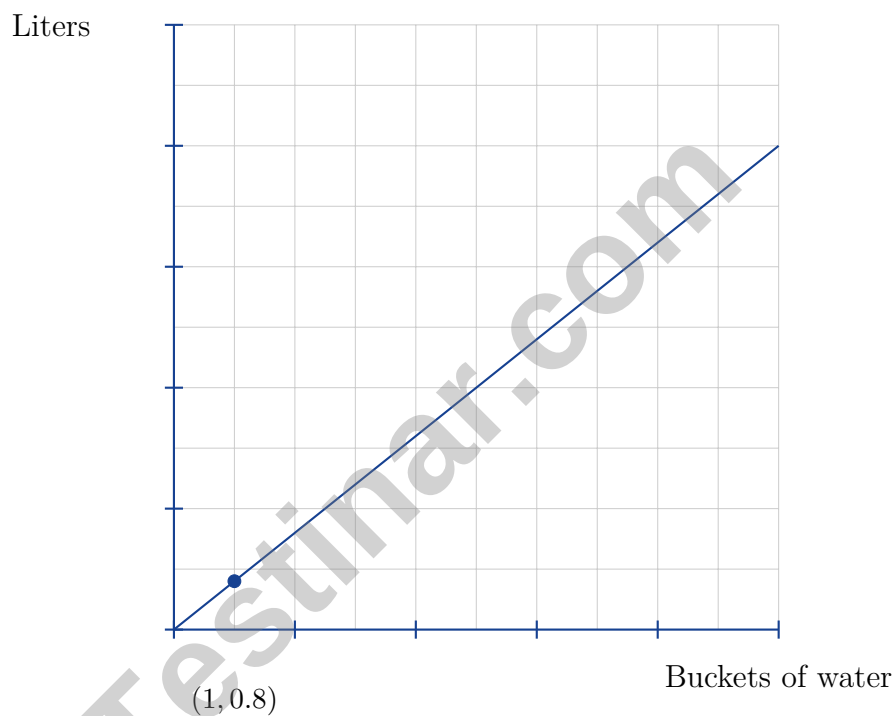
5) What is the rule for reflecting a point over the line $y = -x$?

- ☐ A. $(x, y) \rightarrow (y, x)$
- ☐ B. $(x, y) \rightarrow (-y, -x)$
- ☐ C. $(x, y) \rightarrow (-x, -y)$
- ☐ D. $(x, y) \rightarrow (y, -x)$



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- 6) A savings goal is \$1,200 for a laptop. If someone saves \$40 per month, how many months will it take to reach the goal?



7)

A graph of a proportional relationship is shown with the unit-rate point labeled. Write the equation in the form $y = kx$.

☐ A. $y = 10x$

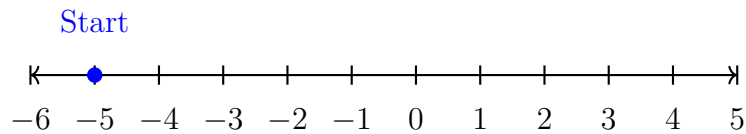
☐ C. $y = 8x$

☐ B. $y = 1.25x$

☐ D. $y = 0.8x$



8) Use the number line. Start at -5 , add 8, then subtract 3. Where do you end?



- ☐ A. -16
- ☐ B. 0
- ☐ C. 6
- ☐ D. 10
- 9) What is $\frac{2}{25}$ as a decimal?
- ☐ A. 0.08
- ☐ B. 0.25
- ☐ C. 0.52
- ☐ D. 0.92
- 10) Starting with \$600, an account earns 8% annual compound interest. How much interest is earned after 3 years?

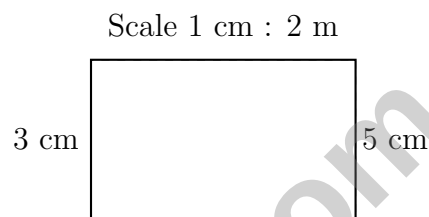
- 11) Expand: $4(x + 2) - (x - 5)$.
- ☐ A. $4x + 8 - x + 5 = 3x + 13$
- ☐ B. $3x + 3$
- ☐ C. $5x + 13$
- ☐ D. $3x + 8$
- 12) Which is equivalent to $\frac{a^{15}}{a^{10}}$?
- ☐ A. a^5
- ☐ B. a^{25}
- ☐ C. a^{150}
- ☐ D. a^{-5}



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1) A jar contains colored balls: Red, Blue, and Green. A marble is drawn, replaced, and then a second marble is drawn. Which statement about this compound experiment is FALSE?

- ☐ A. With replacement, the second draw has the same outcomes as the first
- ☐ B. The total sample space has 9 outcomes
- ☐ C. The probability of drawing Blue on both draws is $\frac{2}{9}$
- ☐ D. Without replacement, there would be fewer total outcomes



2)

What is the perimeter of the actual rectangle?

- ☐ A. 16 m
- ☐ B. 32 m
- ☐ C. 64 m
- ☐ D. 128 m

3) A bicycle wheel has diameter 0.6 meters. If the bike travels 30 meters, how many complete rotations did the wheel make? Use $\pi \approx 3.14$, round to the nearest whole number.



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4) Which expression is equivalent to $8 - 3$?

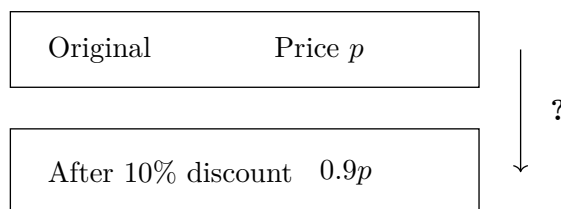
☐ A. $8 + 3$

☐ C. $-8 + 3$

☐ B. $8 + (-3)$

☐ D. $3 - 8$

5)



Which expression correctly shows the relationship from the diagram?

☐ A. $0.9p = p - 0.1p$

☐ C. $0.9p = 1.1p$

☐ B. $0.9p = p + 0.1p$

☐ D. $0.9p = 0.1p$

6) Find the solution: $\frac{x}{3} - 2 = 4$

☐ A. $x = 4$

☐ C. $x = 18$

☐ B. $x = 12$

☐ D. $x = 24$

7) A dot plot shows the number of hours 8 friends played video games last Saturday: 0, 1, 1, 2, 3, 3, 3, 5. Which statistic is MOST resistant to the outlier (5 hours)?

☐ A. Mean

☐ C. Range

☐ B. Median

☐ D. Mode

8) A deck contains 52 cards: 13 hearts, 13 diamonds, 13 clubs, and 13 spades. A card is drawn at random. What is the probability of drawing a heart or a diamond?

☐ A. $\frac{1}{4}$

☐ C. $\frac{3}{13}$

☐ B. $\frac{1}{2}$

☐ D. $\frac{1}{3}$



1) A printer produces $\frac{2}{3}$ ream of paper in $\frac{1}{4}$ hour. How many reams can it produce in 3 hours?

☐ A. 6 reams

☐ C. 2 reams

☐ B. $\frac{2}{3}$ reams

☐ D. 8 reams

2) A box plot for test scores in two classes shows: Class X (min 50, Q1 75, median 82, Q3 90, max 100) vs. Class Y (min 60, Q1 80, median 84, Q3 88, max 98). Which comparison is valid?

☐ A. Class X has higher median scores

☐ C. Class Y's quartile-to-quartile

☐ B. Class Y has a larger spread (range: 38 vs. 50)

spread (IQR = 8) is smaller than Class X's (IQR = 15)

☐ D. Class X students performed better overall

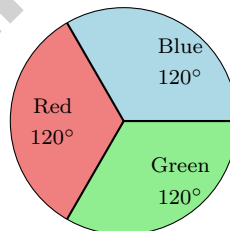
3) Solve for x : $4(2x + 1) = 3(x + 8)$

☐ A. $x = 2$

☐ C. $x = 4$

☐ B. $x = 3$

☐ D. $x = 5$



4)

This spinner has three equal 120° sectors. What is $P(\text{Blue})$?

☐ A. $\frac{1}{3}$

☐ C. $\frac{120}{180}$

☐ B. $\frac{1}{4}$

☐ D. $\frac{2}{5}$



- 5) A living room measures 18 feet by 14 feet. On a floor plan with scale $\frac{1}{2}$ inch to 4 feet, what is the area of the room on the floor plan in square inches?

- 6) A young entrepreneur receives a business loan of \$8500 at 8.5% simple interest. If the loan is for 18 months, what is the total amount that must be repaid?

- ☐ A. \$10725 ☐ C. \$10187.50
☐ B. \$9722.50 ☐ D. \$9587.50

7)



Which subtraction problem is shown by the red arrow (moving right 4 units from -7)?

- ☐ A. $-7 - (-4)$ ☐ C. $-7 + (-4)$
☐ B. $-7 - 4$ ☐ D. $4 - (-7)$
- 8) Identify the expression that is already simplified.

- ☐ A. $2x + 3x + 4y$ ☐ C. $7m + 3n - 2p$
☐ B. $5a + 3a + 2b$ ☐ D. $4c + 2c + 5c$



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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 B is correct.** (7.SP.5-7.SP.8) $\frac{2}{5}$ probability requires 2 favorable outcomes out of 5 equally likely ones. Option B directly represents this ratio.
- 2) **Choice D is correct.** (7.EE.1-7.EE.2) The work is correct: $2(-4) + 3(2) = -8 + 6 = -2$.
- 3) **Choice A is correct.** (7.EE.1-7.EE.2) Combine: $(10g + 2g - 3g) + (6 - 8 - 1) = 9g - 3$.
- 4) **Choice C is correct.** (7.EE.3-7.EE.4) Subtract 3: $\frac{1}{2}x = 5$. Multiply by 2: $x = 10$.
- 5) **Choice B is correct.** (7.G.1-7.G.5) Reflection over $y = -x$ swaps coordinates and negates both: $(x, y) \rightarrow (-y, -x)$.
- 6) **The correct answer is 30.** (7.RP.3) Months = $\$1,200 \div \$40 = 30$ months.
- 7) **Choice D is correct.** (7.RP.1-7.RP.3) The unit-rate point $(1, 0.8)$ shows that $k = 0.8$, so the equation is $y = 0.8x$.
- 8) **Choice B is correct.** (7.NS.1-7.NS.3) $-5 + 8 = 3$; then $3 - 3 = 0$.
- 9) **Choice A is correct.** (7.NS.2d) Divide $2 \div 25 = 0.08$. Since $25 = 5^2$, this terminates.
- 10) **The correct answer is \$155.83.** (7.RP.3) Final balance: $600(1.08)^3 = 600 \times 1.2597 = 755.83$. Interest earned: $755.83 - 600 = 155.83$.
- 11) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute: $4x + 8 - (x - 5) = 4x + 8 - x + 5$. Combine: $(4x - x) + (8 + 5) = 3x + 13$.
- 12) **Choice A is correct.** (7.EE.1-7.EE.2) Quotient rule: $\frac{a^{15}}{a^{10}} = a^{15-10} = a^5$.
- 13) **Choice C is correct.** (7.EE.4a) Although both forms are mathematically equivalent, in word-problem context, writing the fixed fee first $(3.50 + 6n)$ is often clearer.
- 14) **Choice A is correct.** (7.EE.3-7.EE.4) Order of operations in reverse: undo the addition/subtraction first (-6) , then undo multiplication/division $(\div 4)$.
- 15) **The correct answer is 0.000025.** (7.NS.1-7.NS.3) Move decimal 5 places left: $2.5 \rightarrow 0.000025$.
- 16) **Choice A is correct.** (7.EE.4a) Distribute: $-2x - 6 = 10$. Add 6: $-2x = 16$. Divide by -2 : $x = -8$.
- 17) **Choice C is correct.** (7.NS.1-7.NS.3) Since $50 < 75$, we have $\sqrt{50} < \sqrt{75}$. Approximately $\sqrt{50} \approx 7.07$ and $\sqrt{75} \approx 8.66$.
- 18) **Choice A is correct.** (7.SP.3) Histogram centers show typical values. Class 2023 (3.2–3.8) is shifted right of Class 2024 (3.0–3.6), indicating higher typical GPA despite overlap.
- 19) **Choice D is correct.** (7.SP.5-7.SP.8) This is non-uniform (four equal faces but unequal outcomes). $P(1) = \frac{2}{4} = \frac{1}{2}$. $P(2) = P(3) = \frac{1}{4}$ each.
- 20) **Choice B is correct.** (7.NS.2) Loss of \$3 per day for 5 days: $(-3) \times 5 = -15$. The total change is $-\$15$.
- 21) **Choice C is correct.** (7.RP.3) Processing fee = $0.03 \times 1000 = \$30$.
- 22) **The correct answer is B,D.** (7.NS.1-7.NS.3) B: $-33 + 33 = 0$ (opposites sum to zero). D: $-100 + 100 = 0$ (opposites sum to zero). A: $20 + (-10) = 10$ (not zero). C: $14 + (-7) = 7$ (not zero).
- 23) **Choice D is correct.** (7.RP.1-7.RP.3) Divide both 12 and 8 by their GCD, which is 4: $12 \div 4 = 3$ and $8 \div 4 = 2$. So the simplest form is $3 : 2$.
- 24) **Choice C is correct.** (7.G.4-7.G.6) Rectangle: $6 \times 4 = 24 \text{ m}^2$; square: $3 \times 3 = 9 \text{ m}^2$. Total: $24 + 9 = 33 \text{ m}^2$.
- 25) **Choice C is correct.** (7.G.4-7.G.6) Base area = $\frac{1}{2}(7 + 9) \times 4 = \frac{1}{2} \times 16 \times 4 = 32 \text{ cm}^2$. Volume = $32 \times 5 = 160 \text{ cm}^3$.
- 26) **Choice B is correct.** (7.G.1-7.G.5) $80^\circ + 100^\circ + 95^\circ + 85^\circ = 360^\circ$, which is the sum of the interior angles of a quadrilateral.
- 27) **Choice B is correct.** (7.G.4-7.G.6) The center is the point inside the circle equidistant from all points on the circle. M is at the center.
- 28) **Choice B is correct.** (7.G.1-7.G.5) We have angle α at G , the side $GH = 7$ cm between them, and angle β at H . This is Angle-Side-Angle (ASA): two angles and the included side are given.
- 29) **The correct answer is 4.** (7.EE.1-7.EE.2) Expansion: $-2(3x) - 2(-5) = -6x + 10$. Evaluation: $-6(1) + 10 = -6 + 10 = 4$. Verify by substituting into original: $-2(3 - 5) = -2(-2) = 4$ ✓.
- 30) **Choice C is correct.** (7.SP.1-7.SP.4) $\frac{16}{100} = \frac{x}{8000}$. So $x = 0.16 \times 8000 = 1280$.



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Hi, Future Algebra Thinker!

◇ Grade 7 practice prepares you for the next math steps. Expressions, equations, proportional relationships, and graphs are all part of that bridge. This wide-ranging book gave you eight serious Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. ◇

★ **Remember this:** Every time you solved for an unknown or explained a relationship, you were building skills that future math will use again. ★

Bridge Skills

- **Use Variables:** Let letters stand for unknown values.
- **Balance Equations:** Keep both sides fair.
- **Read Graphs:** Connect points to meaning.
- **Compare Rates:** Look for constant relationships.

Grade 7 test-day tip: When you see a variable, say what it represents. That keeps algebra connected to the problem.

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

Jay Daie

Your Algebra Bridge Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **8** 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:

8 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.

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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.

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- ✓ The Number System
- ✓ Expressions & Equations
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- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ Algebraic Thinking
- ✓ And More!



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