

10

Georgia Milestones

GRADE
7
MATH

PRACTICE TESTS

Standards Aligned Problem
Solving For Comprehensive
Assessment Programs



10 PRINTED TESTS

Realistic practice to build
confidence and mastery



2 ONLINE TESTS

Extra practice for
continued success



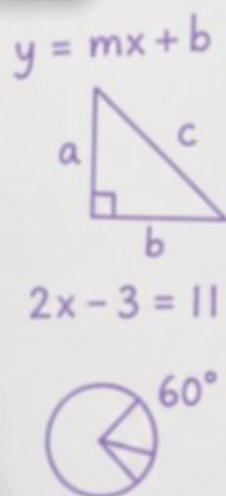
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step
solutions



FOCUSED & EFFECTIVE

Target key math skills
with purposeful practice



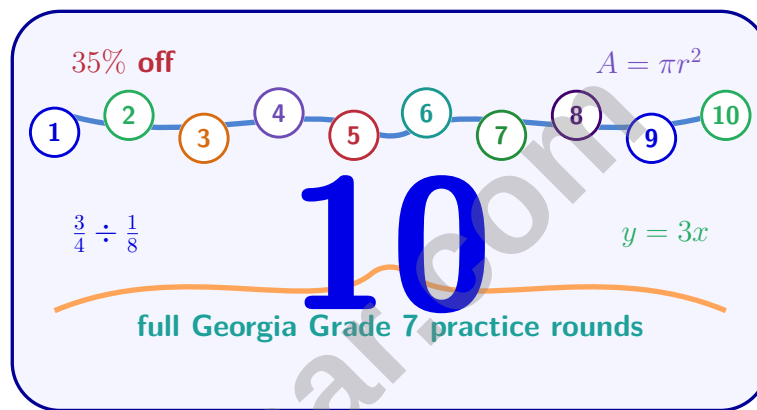
10 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE ★ REVIEW ★ SUCCEED

10 Georgia Milestones Grade 7 Math Practice Tests

Georgia Grade 7 Milestones Practice for confident mixed review through proportional relationships, algebra, geometry, statistics, and chance



Ten 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!

Ten focused rounds for sharper Georgia Milestones math thinking

This book gives you ten 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 ten-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?

Ten Georgia Milestones tests, 400 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.
Test 10	A final Georgia round to show growth across the whole book.
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.

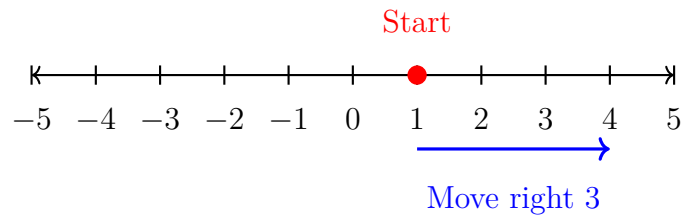


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- 1) The number line shows a move. Which operation does it represent?



- ☐ A. $1 - 3$
☐ C. $1 + (-3)$
☐ B. $1 - (-4)$
☐ D. $1 + 3$

- 2) Estimate $\sqrt{75}$ to the nearest whole number.

- ☐ A. 8
 ☐ C. 10
☐ B. 9
 ☐ D. 11

Fixed	$3w$ variable
-------	---------------

- 3) Total = 85 lbs

A shipping service charges a \$10 fixed packaging fee and \$3 per pound for the item weight. The bar model shows this cost structure. Which equation models the total cost C for an item weighing w pounds?

- ☐ A. $C = 3w + 10$
☐ C. $C = 3 + 10w$
☐ B. $C = 10w + 3$
☐ D. $C = 10(3w)$
- 4) A student simplifies $-2(3 + 4)$ and writes: $-2(3) + 2(4) = -6 + 8 = 2$. What is the correct answer?

- ☐ A. -14
 ☐ C. 2
☐ B. -2
 ☐ D. 14

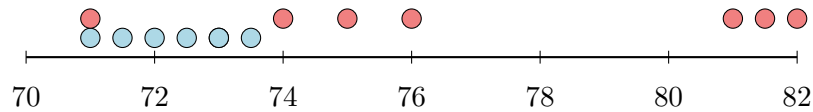


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5) The dot plots below show the daily temperatures (in °F) for two months:

Month 2:

Month 1:



Which month is more consistent in temperature?

- ☐ A. Month 1 (tighter cluster)
 ☐ C. Both have equal consistency
☐ B. Month 2 (wider spread)
 ☐ D. Cannot tell from dot plots
- 6) A box of cereal contains 24 collectible cards: 6 are baseball players, 9 are basketball players, and 9 are soccer players. If you draw one card at random, what is the probability of drawing a basketball or soccer player card?
- ☐ A. $\frac{1}{4}$
☐ C. $\frac{3}{4}$
☐ B. $\frac{1}{2}$
☐ D. $\frac{9}{24}$
- 7) In a compound experiment, you draw a letter from {A, E, I} and select a number from 1 to 4. How many outcomes are in the sample space?
- ☐ A. 7
 ☐ C. 12
☐ B. 9
 ☐ D. 16
- 8) A jar contains 6 white and 4 black balls. Two balls are drawn WITH replacement. What is the probability both are white?
- ☐ A. $\frac{9}{25}$
☐ C. $\frac{8}{25}$
☐ B. $\frac{12}{40}$
☐ D. $\frac{24}{100}$



- 9) A weather report analyzed 365 days of data. It rained on 78 days. What is the experimental probability that it will rain on any given day, based on this data?
- ☐ A. 0.17 ☐ C. 0.31
☐ B. 0.21 ☐ D. 0.78
- 10) If a dataset contains 20 values and you place them in a stem-and-leaf plot, what is the median position?
- ☐ A. Between 10th and 11th values ☐ C. The 11th value
☐ B. The 10th value ☐ D. Between 9th and 10th values
- 11) A probability of $\frac{1}{4}$ is what percent?
- ☐ A. 4% ☐ C. 25%
☐ B. 14% ☐ D. 75%
- 12) A rectangular prism has a length of 9 inches, a width of 4 inches, and a height of 6 inches. What is the volume in cubic inches?

- 13) **Volume Estimates (Liters)**

Container	Estimate	Actual
Tank	24	30

What is the percent error for the tank volume estimate?

- ☐ A. 80% ☐ C. 25%
☐ B. 6% ☐ D. 20%



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1) Circle A has a radius of 3 cm. Circle B has a radius of 3 cm. If you double the radius of Circle A , how does its new diameter compare to Circle B 's diameter?

- ☐ A. New diameter of A is half of B 's diameter ☐ C. New diameter of A is twice B 's diameter
☐ B. New diameter of A is equal to B 's diameter ☐ D. Cannot be determined

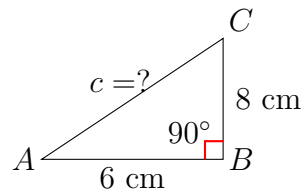
2) A stem-and-leaf plot shows:

Stem	Leaves
22	0, 3, 7
23	1, 4, 6, 9
24	2, 5, 8

What is the sum of the minimum and maximum values?

- ☐ A. 470 ☐ C. 468
☐ B. 471 ☐ D. 473
- 3) A composite figure consists of a semicircle (diameter 10 inches) placed on top of a rectangle (10 inches $\times$ 8 inches). What is the total area? (Use $\pi \approx 3.14$.)
- ☐ A. 80 in² ☐ C. 119.25 in²
☐ B. 99.25 in² ☐ D. 159.25 in²
- 4) A retailer buys items for \$80 and marks them up by 55%. What is the selling price?





5)

Two sides of a triangle are 6 cm and 8 cm. The angle between them is 90° . What is the hypotenuse?

☐ A. 10 cm

☐ C. 2 cm

☐ B. 14 cm

☐ D. $\sqrt{28}$ cm
6) Expand: $6(m - 1)$
☐ A. $6m - 6$
☐ C. $m - 6$
☐ B. $6m - 1$
☐ D. $6m + 6$
7) Simplify: $3x + 4y + 2z - x + y - z$
☐ A. $2x + 5y + z$
☐ C. $9xyz$
☐ B. $4x + 4y + 2z$
☐ D. $2x + 3y - z$
8) Factor: $18ab + 27a$
☐ A. $9a(2b + 3)$
☐ C. $a(18b + 27)$
☐ B. $18(ab + 1.5a)$
☐ D. $3(6ab + 9a)$


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- 1) A freelance designer charges a base project fee of \$200 plus a 10% usage fee on all client revenue from the design. If the client generates \$1,500 in revenue, what is the total amount owed?
- ☐ A. \$200 ☐ C. \$150
☐ B. \$1,700 ☐ D. \$350
- 2) A circle graph shows how a family spends its monthly budget. Rent is 30%, food is 25%, utilities is 15%, and savings is 30%. Which categories tie for the largest sector?
- ☐ A. Food and Utilities ☐ C. Rent and Savings
☐ B. Utilities and Savings ☐ D. Food and Rent
- 3) Which expression equals $(2s - 10) - (s - 3)$?
- ☐ A. $s - 7$ ☐ C. $3s - 13$
☐ B. $s - 13$ ☐ D. $s + 7$
- 4) A warehouse charges \$50 to reserve a storage unit and \$120 per month. If the total for several months is \$530, which equation represents m , the number of months?
- ☐ A. $50m + 120 = 530$ ☐ C. $50(m + 120) = 530$
☐ B. $120 + 50m = 530$ ☐ D. $120m + 50 = 530$
- 5) If the equation $\frac{3x}{4} - 1 = 5$ is solved, what is the first operation to perform?
- ☐ A. Divide by 3 ☐ C. Add 1
☐ B. Multiply by 4 ☐ D. Subtract 4



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6) Which equation is equivalent to $3(x - 5) = 24$?

☐ A. $3x - 15 = 24$

☐ C. $x - 15 = 24$

☐ B. $3x - 5 = 24$

☐ D. $3x = 19$

7) A spinner has 8 equal sections: 3 labeled A , 2 labeled B , 2 labeled C , and 1 labeled D . Find $P(A)$ as a fraction in lowest terms.



8) A student solves $4x - 6 = 10$ and writes: “Step 1: $4x = 16$. Step 2: $x = 4$.” Which best describes the work?

☐ A. All steps are correct

☐ C. Step 2 is wrong; should be $x = 16$

☐ B. Step 1 is wrong; should be $4x = 4$

☐ D. Both steps have errors

9) If a scale drawing has a scale of $2 : 5$, which of the following is true?

☐ A. The drawing is smaller than the actual object.

☐ C. The drawing and the object are the same size.

☐ B. The drawing is larger than the actual object.

☐ D. Cannot be determined without more information.

10) A rectangular room area is 2.5 m by 3 m. A scale drawing uses $1 \text{ cm} : 0.5 \text{ m}$. What is the area of the scale drawing in square centimeters?

☐ A. 30 cm^2

☐ C. 75 cm^2

☐ B. 60 cm^2

☐ D. 120 cm^2



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.NS.1-7.NS.3) Starting at 1 and moving right 3 units represents adding 3, so $1 + 3 = 4$.
- 2) **Choice B is correct.** (7.NS.1-7.NS.3) $8^2 = 64$ and $9^2 = 81$. Since 75 is closer to 81 than to 64, $\sqrt{75} \approx 8.66$, which rounds to 9.
- 3) **Choice A is correct.** (7.EE.4a) Fixed fee (\$10) plus weight-based charge (\$3w) gives $C = 3w + 10$.
- 4) **Choice A is correct.** (7.NS.2) Correct: $-2(3 + 4) = -2(7) = -14$ or $-2(3) + (-2)(4) = -6 + (-8) = -14$. Student's error: used $+2(4)$ instead of $-2(4)$.
- 5) **Choice A is correct.** (7.SP.1-7.SP.4) Month 1's dots cluster around $71\text{--}73^\circ\text{F}$ (x-coordinates 1–3.5 map to $70\text{--}75^\circ\text{F}$), a narrow range of 2°F . Month 2's dots span from 71 to 82°F (x-coordinates 1–12, range $\approx 11^\circ\text{F}$). Month 1 is more consistent.
- 6) **Choice C is correct.** (7.SP.5-7.SP.8) Basketball or soccer: $9 + 9 = 18$. $P = \frac{18}{24} = \frac{3}{4}$.
- 7) **Choice C is correct.** (7.SP.5-7.SP.8) Letters: 3; numbers: 4. Total: $3 \times 4 = 12$ outcomes.
- 8) **Choice A is correct.** (7.SP.5-7.SP.8) With replacement: $P(\text{both white}) = \frac{6}{10} \cdot \frac{6}{10} = \frac{36}{100} = \frac{9}{25}$.
- 9) **Choice B is correct.** (7.SP.6) Relative frequency of rainy days: $\frac{78}{365} \approx 0.214 \approx 0.21$. This experimental probability predicts future rain likelihood.
- 10) **Choice A is correct.** (7.SP.1-7.SP.4) For $n = 20$ (even), median is between positions $n/2 = 10$ and $n/2 + 1 = 11$.
- 11) **Choice C is correct.** (7.SP.5-7.SP.8) $\frac{1}{4} = 0.25 = 25\%$.
- 12) **The correct answer is 216.** (7.G.4-7.G.6) $V = l \times w \times h = 9 \times 4 \times 6 = 216 \text{ in}^3$.
- 13) **Choice D is correct.** (7.RP.3) Percent error = $\frac{|24-30|}{30} \times 100\% = \frac{6}{30} \times 100\% = 20\%$.
- 14) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute $\frac{1}{5}$: $\frac{1}{5}(10r) + \frac{1}{5}(5) = 2r + 1$.
- 15) **Choice D is correct.** (7.RP.3) Simple interest is calculated on the original principal only, not on accumulated interest. If the principal, rate, and one-year time interval stay the same, the account earns the same dollar amount of interest each year: \$50.
- 16) **Choice D is correct.** (7.RP.1-7.RP.3) Multiply: $8 \times 0.5 = 4 \text{ km}$.
- 17) **Choice D is correct.** (7.RP.3) Item 1: \$75 (since $60 = \text{orig} \times 0.80$); Item 2: \$75 (since $60 + 15 = \$75$). Both were \$75.
- 18) **Choice D is correct.** (7.NS.1b) Position = $-15 + 8 = -7$. She is still 7 feet below sea level (represented as -7).
- 19) **Choice B is correct.** (7.EE.1) Like terms have the same variable(s) and exponent(s). Both $-5ab$ and $3ab$ have the same variables and exponents.
- 20) **The correct answer is B, C.** (7.G.1-7.G.5) Original scale 1:4 (1 in = 4 ft) to new scale 1:8 (1 in = 8 ft) doubles the real-world distance per inch. Scale factor ratio: $8 \div 4 = 2$, so drawing shrinks by $1 \div 2 = 0.5$. New dimensions: length $9 \times 0.5 = 4.5 \text{ in}$, width $6 \times 0.5 = 3 \text{ in}$. New area: $4.5 \times 3 = 13.5 \text{ in}^2$. B and C are correct. A/D are distractors showing old dimensions.
- 21) **Choice A is correct.** (7.EE.1-7.EE.2) Expand: $-4(2m + 3) = -4(2m) + (-4)(3) = -8m - 12$. Correct.
- 22) **Choice C is correct.** (7.SP.1-7.SP.4) 23% of 3200 = $0.23 \times 3200 = 736$ students.
- 23) **Choice C is correct.** (7.RP.1-7.RP.3) $y = 3.5 \times 4 = 14$.
- 24) **The correct answer is 9.** (7.G.4-7.G.6) $SA = 2\pi r^2 + 2\pi rh \Rightarrow 326.56 = 2(3.14)(16) + 2(3.14)(4)(h) \Rightarrow 326.56 = 100.48 + 25.12h \Rightarrow 226.08 = 25.12h \Rightarrow h = 9 \text{ cm}$.
- 25) **Choice B is correct.** (7.NS.1-7.NS.3) Change in elevation: $0 - (-480) = 480 \text{ m}$. Rate: $480 \div 16 = 30 \text{ m/hr}$ upward.
- 26) **Choice C is correct.** (7.NS.2d) Divide $19 \div 25 = 0.76$. Since $25 = 5^2$, this is a terminating decimal. Multiply numerator and denominator by 4: $\frac{19 \times 4}{25 \times 4} = \frac{76}{100} = 0.76$.
- 27) **Choice C is correct.** (7.NS.1-7.NS.3) Interest earned: $8.50 \times 6 = 51$ dollars.
- 28) **The correct answer is 0.38 or 38%.** (7.SP.1-7.SP.4) Calculate the sample proportion: $\frac{76}{200} = 0.38 = 38\%$. Since the sample was randomly selected, this sample statistic (0.38) is used as the estimate for the true proportion of all households in the city with at least two pets.
- 29) **Choice B is correct.** (7.NS.1-7.NS.3) Net = $-45 + 120 - 30 + 85 = 130$ dollars (profit).



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Hi, Math Hero!

◇ This full-length book gave you ten complete Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. You showed up for Grade 7 practice again and again. That is what real growth looks like: steady effort, honest review, and a willingness to try. ◇

★ **Remember this:** A math hero is not someone who never misses a question. A math hero learns from the miss and comes back stronger. ★

Hero Habits

- **Courage:** You try problems that are not automatic.
- **Honesty:** You review what needs work.
- **Patience:** You let skills grow over time.
- **Pride:** You recognize the effort you gave.

Grade 7 test-day tip: Save one solved problem you are proud of. Looking back at progress helps motivation stay strong.

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

Jay Daie

Your Math Hero Guide

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 10 full-length Math practice tests and 2 extra 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:

10 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
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 EXTRA 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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FOCUSED



SOLVE
CONFIDENTLY



SUCCEED
BRIGHTLY

PRACTICE ★ REVIEW ★ SUCCEED