

5

Georgia Milestones

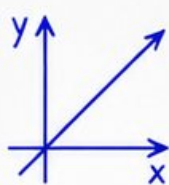
GRADE

7

MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$



$$V = \pi r^2 h$$



5 PRINTED
TESTS



2 ONLINE
TESTS

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



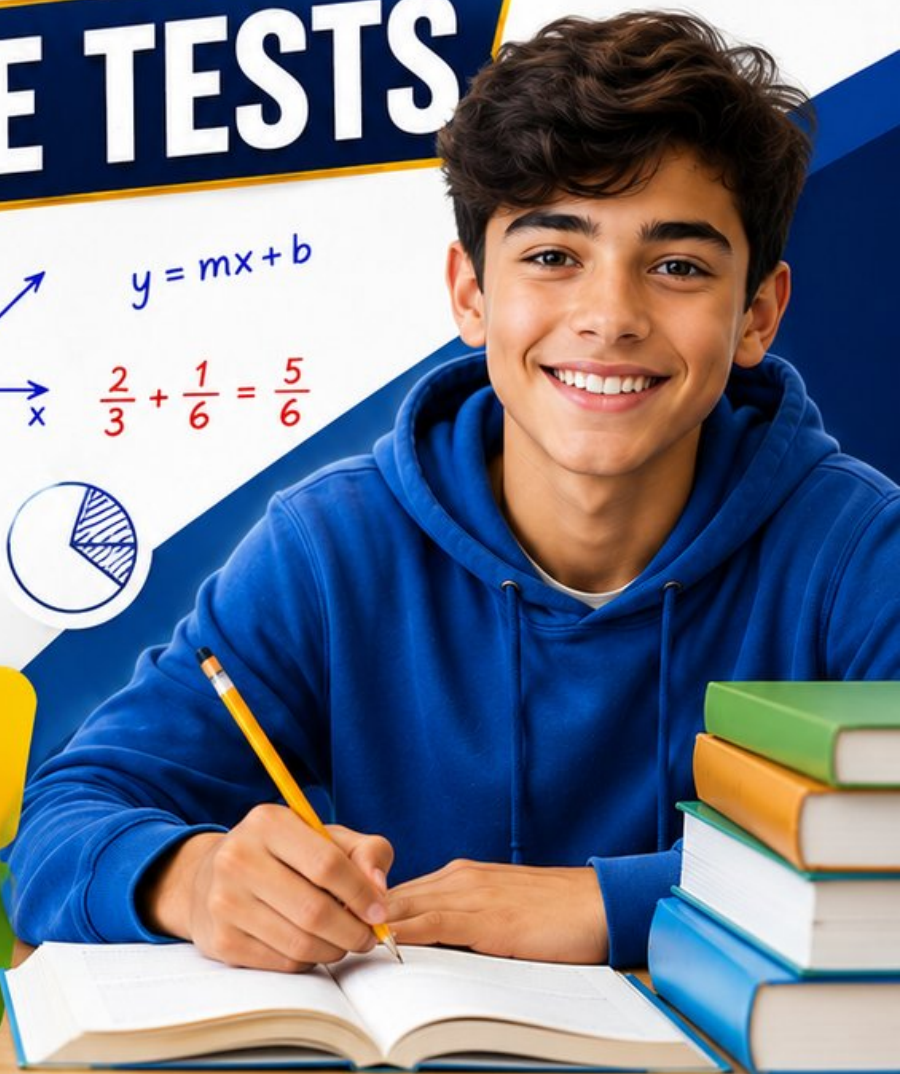
Strengthen
Math Skills



Detailed Answers
& Explanations



Improve Test
Performance



5 Georgia Milestones Grade 7 Math Practice Tests

Standards-Aligned Review with Five Tests and Clear Answer Support



Five 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!

Five focused rounds for sharper Milestones math thinking

This book gives you five 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 five-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?

Five Milestones tests, 200 questions, and a focused review path

Part	What You Will Practice
Tests 1–2	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 3–5	Expressions, equations, inequalities, scale drawings, geometry, data, probability, and multi-step problem solving.
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

Table of Contents

★ Practice Test 1	_____	13
★ Practice Test 2	_____	28
★ Practice Test 3	_____	42
★ Practice Test 4	_____	57
★ Practice Test 5	_____	71
Practice Test Answer Keys	_____	85
Practice Test Answers and Explanations	_____	89

- 1) Two datasets both have a range of 30. Which measure would help distinguish their variability further?
- ☐ A. Mode ☐ C. Minimum value
☐ B. Interquartile range or MAD ☐ D. Outlier count
- 2) A coffee shop buys coffee beans for \$8 per pound and marks them up by \$4 per pound. What is the percent markup?
- ☐ A. 75% ☐ C. 25%
☐ B. 100% ☐ D. 50%
- 3) A student evaluates $-4 - (-6)$ and claims the answer is -10 . What is the student's mistake?
- ☐ A. Computing $-4 + 6 = 2$ when the answer should be -10 ☐ C. Adding instead of subtracting the opposite value
☐ B. Adding the numbers instead of converting to addition: $-4 + (-6) = -10$ ☐ D. Correctly applying the rule but making a computation error
- 4) In a survey of 500 people, 75 prefer online shopping while the rest prefer in-store shopping. What percent prefer online shopping?
- ☐ A. 15% ☐ C. 30%
☐ B. 25% ☐ D. 75%



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- 5) The table shows distance and time. What is the constant of proportionality in miles per hour?

Time (h)	Distance (mi)
2	120
3	180
5	300

- 6) What is 30% of 150?

- ☐ A. 30
☐ B. 180

- ☐ C. 50
☐ D. 45

- 7) A model railroad layout has a scale of 1 : 160. If a real railroad track is 50 meters long, how long should the model track be in centimeters?

- 8) A number line arrow starts at -6 and ends at 9. What integer was added?

- ☐ A. -15
☐ B. -3

- ☐ C. 3
☐ D. 15



- 9) Identify which pair are NOT like terms.
- ☐ A. $6a^2$ and $9a^2$ ☐ C. $-3y$ and $4y$
☐ B. $5x$ and $5x^2$ ☐ D. $2mn$ and mn
- 10) A recipe requires $\frac{5}{8}$ cup of flour. You make 4 batches. How many cups of flour do you need?
- ☐ A. $\frac{20}{32}$ cups ☐ C. 3 cups
☐ B. $2\frac{1}{2}$ cups ☐ D. $\frac{5}{32}$ cups
- 11) Which value is NOT equivalent to 5.0×10^3 ?
- ☐ A. 5,000 ☐ C. 0.5×10^4
☐ B. 50×10^2 ☐ D. 0.05×10^3
- 12) Evaluate $\frac{3a-1}{2}$ when $a = 3$.
- ☐ A. 4 ☐ C. 5
☐ B. 8 ☐ D. 3
- 13) Three workers complete $\frac{2}{3}$ of a project equally in 1 day. How much does each worker complete?
- ☐ A. $\frac{1}{9}$ of the project ☐ C. $\frac{2}{3}$ of the project
☐ B. $\frac{3}{2}$ of the project ☐ D. $\frac{2}{9}$ of the project
- 14) If y is proportional to x and $y = 20$ when $x = 4$, what is the constant of proportionality?
- ☐ A. $k = 80$ ☐ C. $k = 20$
☐ B. $k = 4$ ☐ D. $k = 5$



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- 1) A prism has a base area of 72 ft^2 and a volume of 576 ft^3 . What is its height?
- ☐ A. 6 ft ☐ C. 12 ft
☐ B. 8 ft ☐ D. 504 ft
- 2) A machine prints 120 pages every 2 minutes. What is the constant of proportionality k if p is pages and t is time in minutes?
- ☐ A. $k = 2$ ☐ C. $k = \frac{1}{60}$
☐ B. $k = 120$ ☐ D. $k = 60$
- 3) A data table shows that 8 items cost \$40 and 12 items cost \$60. Is this a proportional relationship? If yes, what is k ?
- ☐ A. Not proportional ☐ C. Yes; $k = 8$
☐ B. Yes; $k = 12$ ☐ D. Yes; $k = 5$
- 4) A cube has edge length 6 cm. Find its surface area.
- ☐ A. 36 cm^2 ☐ C. 144 cm^2
☐ B. 72 cm^2 ☐ D. 216 cm^2

5)

Number of Heads	0	1	2	3	Total
Frequency	12	36	37	15	100

A coin is flipped 3 times in each trial, and this is repeated 100 times. The table shows the number of heads per trial. What is the estimated probability of getting exactly 2 heads in three flips?

- ☐ A. 0.27 ☐ C. 0.37
☐ B. 0.35 ☐ D. 0.40



6) A taxi charges \$3 per mile plus a \$2 fee. If a trip costs \$17, how many miles was the trip? Check your answer is reasonable.

☐ A. 3 miles

☐ C. 6 miles

☐ B. 5 miles

☐ D. 8 miles

7) Solve: $-2(x + 1) < 10$

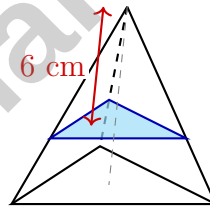
☐ A. $x > -6$

☐ C. $x < 6$

☐ B. $x < -6$

☐ D. $x > 6$

8) Expand and simplify $4(2a + 1) - 3a$, then evaluate when $a = 2$.



parallel triangular slice

9)

A triangular pyramid is sliced by a plane parallel to the base, creating a triangular cross-section. If the original pyramid has height 9 cm and the plane is 6 cm below the apex, what is the linear scale factor of the cross-section to the base?

☐ A. $\frac{1}{3}$

☐ C. $\frac{2}{9}$

☐ B. $\frac{3}{4}$

☐ D. $\frac{2}{3}$



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1) Two proportional relationships are $y = 3x$ and $y = 5x$. Which relationship has the greater constant of proportionality?

☐ A. $y = 3x$

☐ B. $y = 5x$

☐ C. Both have the same constant☐ D. Neither relationship is proportional

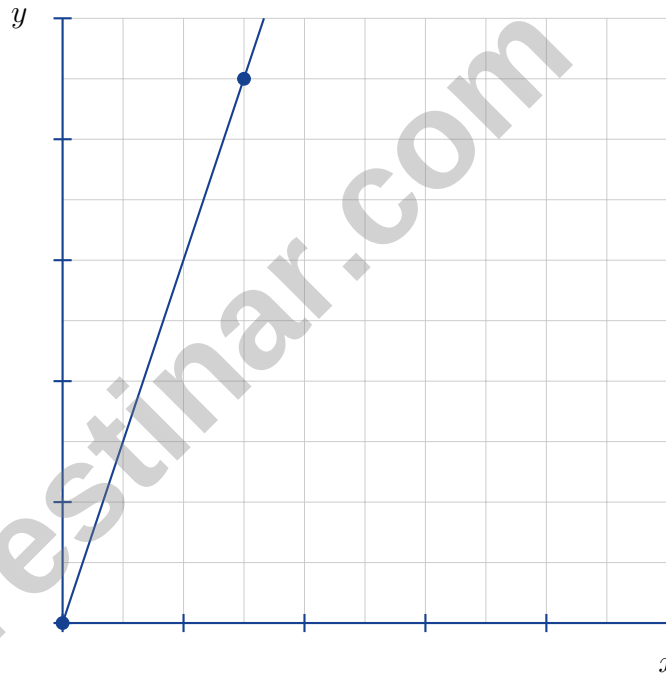
2) Which inequality represents “a number plus 8 is less than 15”?

☐ A. $x + 8 < 15$

☐ B. $x + 8 > 15$

☐ C. $x - 8 < 15$

☐ D. $8x < 15$



3)

The origin and the point $(3, 9)$ lie on the same proportional line. What is the unit rate k ?

☐ A. 0.3

☐ B. 1

☐ C. 3

☐ D. 9



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4) Subtract: $\frac{5}{8} - \frac{7}{8}$

☐ A. $-\frac{1}{4}$

☐ B. $\frac{1}{4}$

☐ C. $-\frac{2}{8}$

☐ D. $\frac{3}{4}$

5) What is $-\frac{2}{3} \div \frac{4}{5}$?

☐ A. $-\frac{5}{6}$

☐ B. $-\frac{8}{15}$

☐ C. $\frac{8}{15}$

☐ D. $\frac{5}{6}$

6) Convert $\frac{1}{16}$ to a decimal.

☐ A. 0.0625

☐ B. 0.16

☐ C. 0.625

☐ D. 0.916

7) Over 5 weeks, an account loses \$12.50 per week. What is the total change in the account balance?

☐ A. $-\$62.50$

☐ B. $-\$7.50$

☐ C. $\$7.50$

☐ D. $\$62.50$

8) Which expression is equivalent to $12m + 18n$?

☐ A. $6(2m + 3n)$

☐ B. $6(12m + 18n)$

☐ C. $2(6m + 9n)$

☐ D. $12(m + 1.5n)$

9) Simplify: $\frac{4y^9}{2y^4}$

☐ A. $2y^5$

☐ B. $2y^{13}$

☐ C. $2y^{36}$

☐ D. $4y^5$



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.1-7.SP.4) Range only tells the difference between max and min. IQR and MAD show how data is distributed within that range, distinguishing clustered from spread-out data with the same range.
- 2) **Choice D is correct.** (7.RP.3) Markup percent = $\frac{\text{markup}}{\text{cost}} \times 100 = \frac{4}{8} \times 100 = 50\%$.
- 3) **Choice B is correct.** (7.NS.1-7.NS.3) The error is choice B. The student forgot to flip the sign of -6 to $+6$. The correct process: $-4 - (-6) = -4 + 6 = 2$. The student mistakenly added $-4 + (-6) = -10$ instead.
- 4) **Choice A is correct.** (7.SP.1-7.SP.4) $75 \div 500 \times 100 = 0.15 \times 100 = 15\%$.
- 5) **The correct answer is 60.** (7.RP.1-7.RP.3) Each ratio gives the same unit rate: $120 \div 2 = 60$, $180 \div 3 = 60$, and $300 \div 5 = 60$.
- 6) **Choice D is correct.** (7.RP.3) 30% of 150 is $0.30 \times 150 = 45$.
- 7) **The correct answer is 31.25.** (7.RP.1-7.RP.3) $50 \text{ m} = 5000 \text{ cm}$. Divide by scale: $5000 \div 160 = 31.25 \text{ cm}$.
- 8) **Choice D is correct.** (7.NS.1b) If -6 plus an unknown value equals 9, then the unknown is 15 because $-6 + 15 = 9$. The distance from -6 to 9 is 15 units.
- 9) **Choice B is correct.** (7.EE.1) These have different exponents (x^1 vs. x^2), so they are not like terms.
- 10) **Choice B is correct.** (7.NS.1-7.NS.3) Total flour = $4 \times \frac{5}{8} = \frac{20}{8} = \frac{5}{2} = 2\frac{1}{2}$ cups.
- 11) **Choice D is correct.** (7.NS.1-7.NS.3) $5.0 \times 10^3 = 5,000$. Check: $0.05 \times 10^3 = 0.05 \times 1,000 = 50 \neq 5,000$.
- 12) **Choice A is correct.** (7.EE.1-7.EE.2) Substitute: $\frac{3(3)-1}{2} = \frac{9-1}{2} = \frac{8}{2} = 4$.
- 13) **Choice D is correct.** (7.RP.1-7.RP.3) Each worker: $\frac{2/3}{3} = \frac{2}{3} \times \frac{1}{3} = \frac{2}{9}$ of the project.
- 14) **Choice D is correct.** (7.RP.1-7.RP.3) In $y = kx$, solve for k : $20 = k(4)$, so $k = \frac{20}{4} = 5$.
- 15) **Choice D is correct.** (7.RP.1-7.RP.3) The unit-rate point (1, 0.85) shows the rate is 0.85 miles per gallon.
- 16) **The correct answer is \$81.** (7.RP.3) $I = 600 \times 0.045 \times 3 = \81 .
- 17) **Choice D is correct.** (7.RP.3) Using the proportion $\frac{40}{100} = \frac{d}{1}$ where d is the decimal, divide: $\frac{40}{100} = 0.4$.
- 18) **Choice D is correct.** (7.RP.3) $20\% \times \$500 = 0.20 \times 500 = \100 is correct. Options A, C, and D represent common errors (wrong percent, tax confusion, and flipping categories).
- 19) **Choice B is correct.** (7.NS.1-7.NS.3) Common denominator is 12: $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$.
- 20) **The correct answer is A, C.** (7.RP.1-7.RP.3) From the table, $k = 14/2 = 7$, so A is true and the equation is $y = 7x$ (C is true). B is false: $k = 7$, not 2.8. D is false: when $x = 10$, $y = 7 \cdot 10 = 70$, not 68.
- 21) **Choice B is correct.** (7.NS.1-7.NS.3) $2\frac{2}{5} = \frac{12}{5}$. Then $\frac{12}{5} \div \frac{4}{5} = \frac{12}{5} \times \frac{5}{4} = \frac{12}{4} = 3$.
- 22) **Choice B is correct.** (7.NS.2d) $9 \div 10 = 0.9$. Powers of 10 produce terminating decimals with the numerator shifted by decimal places.
- 23) **Choice C is correct.** (7.NS.1-7.NS.3) Discount: $\frac{1}{5} \times 60 = 12$. Price: $60 - 12 = 48$ dollars.
- 24) **Choice C is correct.** (7.NS.1-7.NS.3) Area of a square = $s^2 = 8^2 = 64 \text{ cm}^2$.
- 25) **Choice A is correct.** (7.SP.3) Company P's median (50) and Q3 (65) are both higher than Company Q's (48 and 60). These measures indicate Company P's typical and upper-quartile salaries are higher.
- 26) **Choice B is correct.** (7.SP.5-7.SP.8) $P(\text{Disagree}) = \frac{1}{4} = \frac{5}{20}$. Then $P(\text{Neutral}) = 1 - \frac{7}{20} - \frac{5}{20} = \frac{20-12}{20} = \frac{8}{20}$.
- 27) **Choice B is correct.** (7.NS.2) Any number multiplied by zero equals zero.
- 28) **Choice D is correct.** (7.RP.3) Facility fee = $0.07 \times 85 = \$5.95$. Total = $85 + 5.95 = \$90.95$.
- 29) **Choice C is correct.** (7.RP.3) Balance: $\$2,500 - \$45 + \$800 - \$100 = \$3,155$.
- 30) **Choice D is correct.** (7.RP.3) For doubling: $(1+r)^{10} = 2 \Rightarrow 1+r = 2^{1/10} \approx 1.0718 \Rightarrow r \approx 7.18\%$. Check: $(1.07)^{10} \approx 1.967 \approx 2.0$.
- 31) **The correct answer is 8.33%.** (7.RP.3) Percent error = $\frac{|55000-60000|}{60000} \times 100\% = \frac{5000}{60000} \times 100\% \approx 8.33\%$.



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Hi, Persistent Problem Solver!

◇ Some Grade 7 questions ask you to hold several ideas in your mind at once. That can feel hard, and that is exactly why practice matters. ◇

★ **Remember this:** You showed persistence by continuing through the set. That habit is powerful because difficult problems often open after one more good attempt. You practiced across 5 full Grade 7 practice tests, and that repeated effort matters. ★

Persistence Tools

- **Try a Smaller Case:** Use an easier number to see the pattern.
- **Draw It:** Make the situation visible.
- **Restate It:** Say the question in your own words.
- **Check One Step:** Fix the first unclear place.

Grade 7 test-day tip: When stuck, do not restart everything. Find the first step you trust, then rebuild from there.

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

Jay Daie

Your Persistence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **5** 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:

5 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answers & 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



Build Confidence

Practice regularly to feel prepared and test-ready.



Strengthen Math Skills

Develop key math concepts and problem solving abilities.



Improve Understanding

Learn with clear explanations and step-by-step solutions.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Boost Performance

Apply your knowledge and achieve your best score!

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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