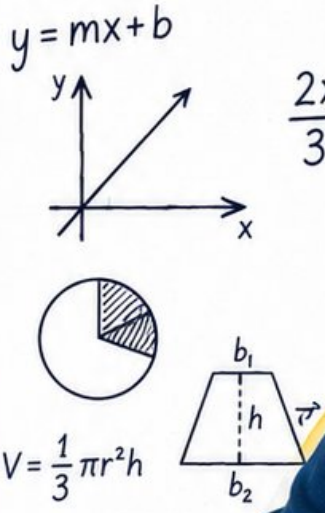
4 Georgia Milestones

GRADE 7 MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



4 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

4 Georgia Milestones Grade 7 Math Practice Tests

Compact Georgia Review with Keys, Explanations, and Strategy

Four 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.

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Welcome, Georgia Grade 7 Problem Solver!

Four focused rounds for sharper Milestones math thinking

This book gives you four 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.

How to Use This Book

A four-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?

Four Milestones tests, 160 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 3–4	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.

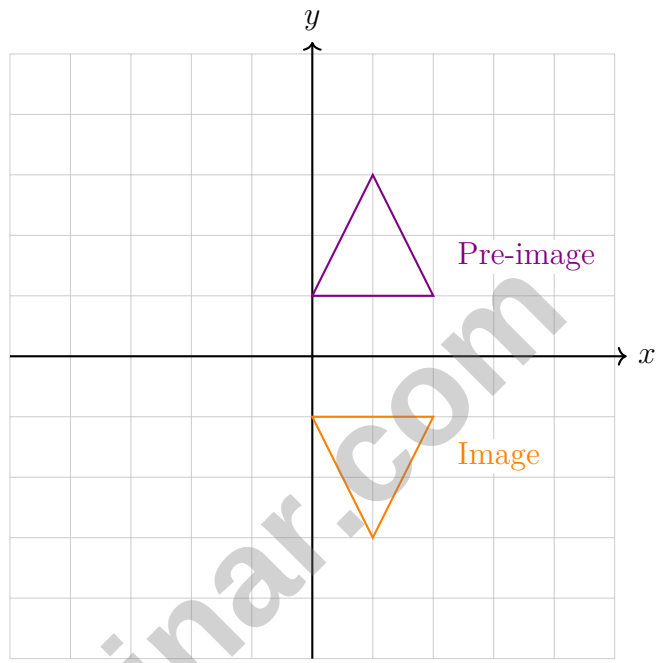
The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.

Table of Contents

1) Which scenario earns the most compound interest over 2 years?

☐ A. \$1,000 at 3%
☐ B. \$1,000 at 5%
☐ C. \$800 at 8%
☐ D. \$500 at 10%

2)



Which transformation maps the purple triangle to the orange triangle?

☐ A. Reflection over the x-axis
☐ B. Reflection over the y-axis
☐ C. Translation by $(0, -2)$
☐ D. Rotation of 90° clockwise

3) A teacher wants to know if two classes have similar skill levels in writing. Which pair of statistics should she compare?

☐ A. Only the ranges
☐ B. Medians and IQRs (center and spread)
☐ C. Only mode
☐ D. Only the maximum scores

4) A histogram compares the distribution of test scores for two parallel 7th-grade math classes (Class A and Class B). Both show symmetric, bell-shaped distributions with the same mean (78) but different spreads: Class A's scores range 60–96; Class B's scores range 70–86. What does the difference in range tell you?

☐ A. Class A students are less prepared
☐ B. Class B has more consistent performance (smaller spread)
☐ C. Class B has better teaching
☐ D. The ranges prove the mean is not representative

5) What is the opposite of the opposite of -3?

6) A spinner is divided into 8 equal sections. 2 sections are labeled "Win", 3 are labeled "Lose", and 3 are labeled "Try Again". What is the probability of spinning "Win"?

☐ A. $\frac{1}{8}$
☐ B. $\frac{1}{4}$
☐ C. $\frac{3}{8}$
☐ D. $\frac{1}{2}$

7) Calculate $-9 \times \frac{4}{3}$.

8) A two-way table shows outcomes for tossing a coin and rolling a die showing 1, 2, or 3. What is the total number of outcomes?

	1	2	3
H	H1	H2	H3
T	T1	T2	T3

☐ A. 2 outcomes
☐ B. 3 outcomes
☐ C. 5 outcomes
☐ D. 6 outcomes

9) A dot plot shows customer wait times (in minutes) at two restaurants. Restaurant X: 3, 4, 4, 5, 5, 5, 6, 6, 7 (minutes); Restaurant Y: 2, 5, 8, 10, 12, 15 (minutes). Which restaurant has more predictable wait times?

☐ A. Restaurant X (clustered around 5 minutes)
☐ B. Restaurant Y (varies from 2 to 15 minutes)
☐ C. Both restaurants have equally predictable times
☐ D. Restaurant Y is always faster

1) Which of the following statements is true about cross-sections of a cube?

☐ A. All cross-sections are squares
☐ B. A cross-section can be a triangle, rectangle, or hexagon
☐ C. Cross-sections are always congruent to the cube's faces
☐ D. No cross-section can have more than 4 sides

2) What is $\sqrt{1}$?

☐ A. 0
☐ B. 1
☐ C. 2
☐ D. undefined

3) What is $(-1) \times 2 \times (-3) \times 4$?

☐ A. -24
☐ B. -10
☐ C. 10
☐ D. 24

4) Which scenario is NOT proportional?

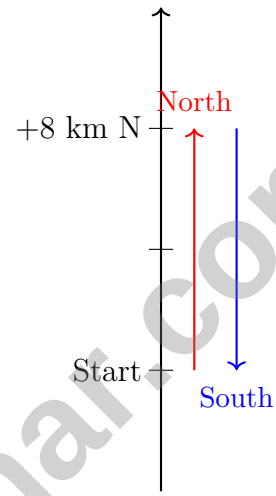
☐ A. A vendor sells notebooks at \$2 each (cost vs. quantity)
☐ B. A car travels 60 miles per hour (distance vs. time)
☐ C. A phone plan costs \$0.10 per minute (cost vs. minutes)
☐ D. A student grows 0.5 inches per year starting from birth (height vs. age)

5) Account balance was $-\$45$ (overdrawn). After a deposit of \$100, what is the new balance?

6) Two sides of a triangle are both 10 m. The third side is at least 2 m but at most 19 m. Which is a VALID third side?

☐ A. 1 m
☐ B. 20 m
☐ C. 15 m
☐ D. 21 m

7) A scout hikes 8 kilometers north, then 8 kilometers south. Using a signed number model where north is positive, what is the total displacement?



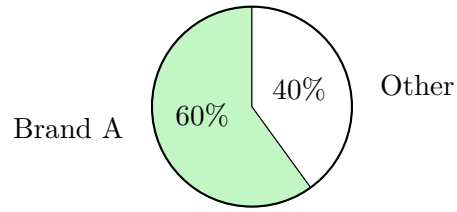
☐ A. 16 km north
☐ B. 8 km north
☐ C. 0 km (back at start)
☐ D. 8 km south

8) The stock price changes are shown in the table. What was the total change?

Day	Price Change
Monday	−$2.50
Tuesday	+$3.75

1)

Sample Survey (250 Customers)



A sample survey found that 60% of 250 customers prefer brand A. If the company has 10000 customers, how many are estimated to prefer brand A?

- ☐ A. 5000
- ☐ B. 6000
- ☐ C. 7000
- ☐ D. 8000

2) Two histograms show the battery life (in hours) of two phone models. Model X: life concentrated at 18–20 hours. Model Y: life spread across 12–24 hours with peak at 16 hours. Which model would you recommend based on predictability?

- ☐ A. Model X (you can predict it will last about 19 hours)
- ☐ B. Model Y (it can last up to 24 hours)
- ☐ C. Both models are equally predictable
- ☐ D. Model Y (wider range means more flexibility)

3) A scale drawing uses a scale of 1 inch = 50 feet. If a building is represented by 2.75 inches on the drawing, what is the actual height of the building?

4) A piece of cardboard is a square (15 cm × 15 cm) with a rectangular notch (4 cm × 3 cm) cut from one corner and a circular hole (radius 2 cm) drilled in the center. What remains? (Use $\pi \approx 3.14$.)

☐ A. 200.44 cm^2
☐ B. 212.56 cm^2
☐ C. 213 cm^2
☐ D. 225 cm^2

5) Convert 3,400,000,000 to scientific notation.

6) A rectangular prism has length 15 cm and width 6 cm. If the height is tripled from 2 cm to 6 cm, how much does the volume increase?

☐ A. 180 cm^3
☐ B. 360 cm^3
☐ C. 540 cm^3
☐ D. 720 cm^3

7) If the radius of a circle is 12 units, how many times larger is the diameter than the radius?

☐ A. 1 time
☐ B. 2 times
☐ C. 3 times
☐ D. 4 times

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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice C is correct.** 7.RP.3 A: $1000(1.03)^2 = 1060.90$; interest = 60.90. B: $1000(1.05)^2 = 1102.50$; interest = 102.50. C: $800(1.08)^2 = 933.12$; interest = 133.12. D: $500(1.10)^2 = 605$; interest = 105. Option C earns the most interest ($133.12).

2) **Choice A is correct.** 7.G.1-7.G.5 The purple triangle vertices have y-values $1, 1, 3$, which become $-1, -1, -3$ in the orange triangle, indicating a reflection over the x-axis.

3) **Choice B is correct.** 7.SP.1-7.SP.4 Comparing skill levels requires both center (where students typically score, via median) and spread (consistency, via IQR). Range alone is too simple; mode and max are insufficient.

4) **Choice B is correct.** 7.SP.1-7.SP.4 Range measures spread. Class A's range of 36 points (96–60) vs. Class B's range of 16 points (86–70) shows Class B's scores are tighter around the mean, indicating less variability and more consistency.

5) **The correct answer is** -3 **.** 7.NS.1-7.NS.3 The opposite of -3 is 3, and the opposite of 3 is -3.

6) **Choice B is correct.** 7.SP.5-7.SP.8 "Win" sections: 2 out of 8. $P(\text{Win}) = \frac{2}{8} = \frac{1}{4}$.

7) **The correct answer is** -12 **.** 7.NS.2 $-9 \times \frac{4}{3} = \frac{-36}{3} = -12$.

8) **Choice D is correct.** 7.SP.5-7.SP.8 The table has 2 rows (H, T) and 3 columns (1, 2, 3). Total: $2 \times 3 = 6$ outcomes.

9) **Choice A is correct.** 7.SP.3 Restaurant X has most data points near 5 minutes with range 4 (from 3 to 7). Restaurant Y's range is 13 (from 2 to 15) with data spread across the range, making it less predictable.

10) **Choice A is correct.** 7.SP.6 From the dot plot, 0 defects appears 4 times. Total items in sample: $4 + 3 + 2 + 1 = 10$. Experimental probability of no defects: $\frac{4}{10} = \frac{2}{5} = 0.40$.

11) **Choice B is correct.** 7.SP.5-7.SP.8 Total marbles: 10. White marbles: 6. Probability: $\frac{6}{10} = \frac{3}{5}$.

12) **Choice B is correct.** 7.SP.1-7.SP.4 Total: 2+3+4+2+4 = 15 people. In 40s: 4 people. Percent: $4/15 \approx 0.267 \approx 25\%$ (closest).

13) **Choice C is correct.** 7.G.4-7.G.6 The L-shape is split into two rectangles: one is 7×5, the other is 3×3. Add their areas: $35 + 9 = 44$ m^2.

14) **Choice C is correct.** 7.G.4-7.G.6 $h = \frac{V}{B} = \frac{360}{40} = 9$ m.

15) **Choice A is correct.** 7.G.4-7.G.6 Circle X has radius 6 cm. Circle Y has diameter 6 cm, so its radius is 3 cm. Circle X has the larger radius.

16) **Choice A is correct.** 7.G.1-7.G.5 An equilateral triangle has all sides and all angles equal. Since the angle sum is 180° and all three angles are equal, each angle is $180° \div 3 = 60°$.

17) **Choice B is correct.** 7.SP.5-7.SP.8 A = 0.5, B = 0.6, C = 0.55. Event B has the highest probability ($0.6 > 0.55 > 0.5$).

18) **Choice A is correct.** 7.SP.1-7.SP.4 $\frac{15}{50} = 0.30$; $\frac{12}{40} = 0.30$; $\frac{18}{72} = 0.25$. First and second both equal 30%.

19) **The correct answer is A,D.** 7.RP.1-7.RP.3 A and D are unit rates because each gives a price per single unit of weight. Option B is a distance, and option C is a total count.

20) **Choice D is correct.** 7.RP.3 Sale price = original $\times 0.60$. So 36 = original $\times$ 0.60, giving original $= 36 \div 0.60 = \$60$.

21) **Choice A is correct.** 7.NS.1-7.NS.3 $-8 - 3 = -8 + (-3) = -11$. Both values are negative, so the sum is more negative.

22) **Choice C is correct.** 7.SP.1-7.SP.4 19% of $1200 = 0.19 \times 1200 = 228$ items.

23) **Choice D is correct.** 7.RP.3 A 20% increase of $40 is $0.20 \times 40 = 8$ dollars.

24) **Choice D is correct.** 7.RP.1-7.RP.3 First: $\frac{150}{2/3} = 150 \times \frac{3}{2} = 225$ $/hr. Second: $\frac{140}{3/5} = 140 \times \frac{5}{3} = \frac{700}{3} \approx 233.33$ $/hr. First is less.

25) **Choice D is correct.** 7.RP.1-7.RP.3 For a line through the origin with form $y = kx$: $(3, 6)$ gives $k = 6/3 = 2$. Check $(5, 11)$: $k = 11/5 = 2.2 \neq 2$. The constant of proportionality does not match, so this pair cannot both lie on the same proportional line through the origin.

26) **The correct answer is** 11 **.** 7.NS.1-7.NS.3 $11^2 = 121$ and $12^2 = 144$. Since 130 is very close to 121, $\sqrt{130} \approx 11.4$, which rounds to 11.

27) **The correct answer is** 70 **.** 7.G.1-7.G.5 Sum of angles in a triangle is 180°. Third angle $= 180° - 35° - 75° = 70°$.

Hi, Confident Learner!

◇ This carefully paced book gave you four steady 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 4 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:

- 4 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!

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PRACTICE REGULARLY | STAY FOCUSED | SOLVE CONFIDENTLY | SUCCEED BRIGHTLY