

8 Georgia Milestones

GRADE 6

MATH

PRACTICE TESTS

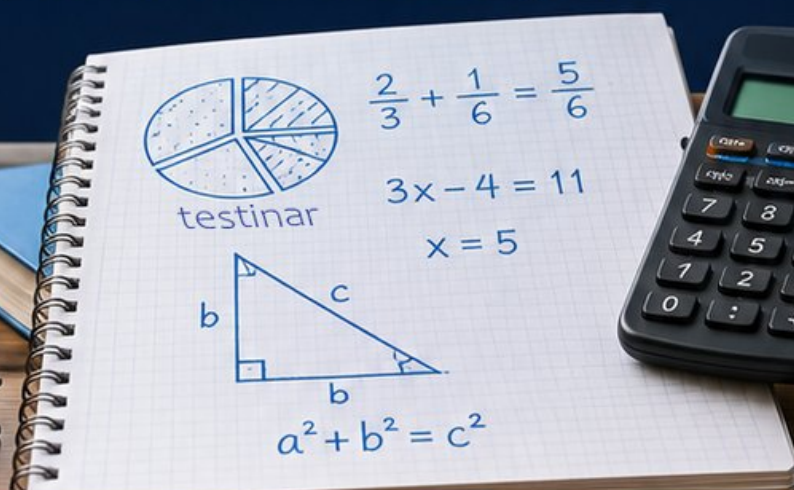
8
PRINTED
TESTS

+

2
ONLINE
TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for
Comprehensive Assessment Program



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Georgia Milestones Grade 6 Math Practice Tests

Standards-Aligned Peach-State Practice Discipline for Georgia Milestones Assessment System



Eight complete 40-question Grade 6 practice rounds for Milestones, built for peach-state practice discipline with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Georgia Math Explorer!

Eight focused rounds using peach-state practice discipline

This book gives you eight full Grade 6 practice tests for Milestones. Each round uses city blocks, red clay roads, and steady classroom routines as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Georgia Practice Promise

Show the thinking before the answer: circle clues, write the equation, and label the result.

Read

Plan

Check

How to Use This Book

A eight-session routine for peach-state practice discipline

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Georgia review rhythm: Take a round, review the explanations, and set one small target for the next test.



What Is Inside?

Eight Milestones tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–8	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Peach-state practice discipline means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	30
★ Practice Test 3	_____	45
★ Practice Test 4	_____	59
★ Practice Test 5	_____	75
★ Practice Test 6	_____	92
★ Practice Test 7	_____	106
★ Practice Test 8	_____	123
Practice Test Answer Keys	_____	141
Practice Test Answers and Explanations	_____	146

- 1) A data set has minimum = 10, $Q1 = 18$, median = 24, $Q3 = 30$, and maximum = 45. One value is an outlier far above the rest. Which measure of spread is LEAST affected by this outlier?
- A. Range C. Mean absolute deviation
 B. Interquartile range D. Mean
- 2) A triangle has a base of 18 feet. If its area is 63 ft^2 , what is the height?
- A. 3.5 ft C. 10.5 ft
 B. 14 ft D. 7 ft
- 3) A rectangular prism has length 6 cm, width 5 cm, and height $\frac{4}{5}$ cm. What is its volume?
- A. 12 cm^3 C. 24 cm^3
 B. 18 cm^3 D. 30 cm^3
- 4) A pentagon has vertices at (1, 1), (5, 1), (7, 4), (4, 7), and (1, 5). How many sides does it have?
- A. 4 sides C. 6 sides
 B. 5 sides D. 7 sides
- 5) Maria is organizing supplies for a field trip. She has 36 pencils and 48 erasers to distribute equally among groups. What is the greatest number of groups she can make if each group gets the same number of pencils and erasers?
- A. 4 C. 12
 B. 6 D. 24



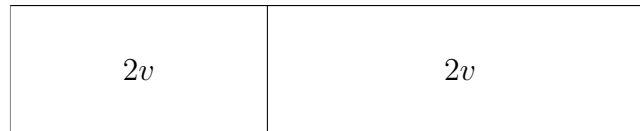
6) If $? \times (-8) = 56$, what is the missing number?

A. -7

C. 48

B. 7

D. 64



7)

Total: $2v + 2v = 4v$

The tape diagram shows two equal parts. Which expression represents this?

A. $2v \cdot 2v$

C. $2(2v)$

B. $(2v)^2$

D. $2v + 2v$

8) Complete the table by identifying the number of terms in each expression:

Expression	Number of Terms
$7a$	1
$4x + 2y$?
$5m + 3n + 2p + 1$?

What is the total of the two missing numbers?

A. 5

C. 4

B. 7

D. 6

9) An orange costs o cents. A banana costs 5 cents more than an orange. If $o = 30$, what is the cost of a banana in cents?

A. 25

C. 35

B. 30

D. 150



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10) Solve for x : $8x = 32$

A. $x = 4$

C. $x = 40$

B. $x = 24$

D. $x = 256$

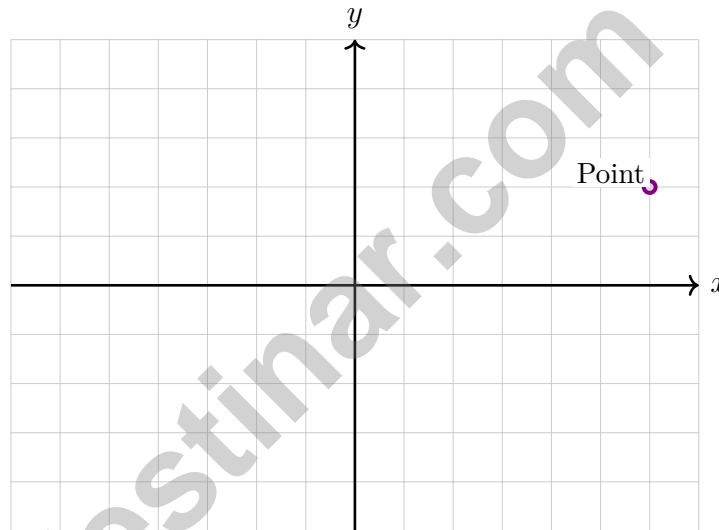
11) A worker earns \$15 per hour. Which equation relates total earnings E to hours worked h ?

A. $E = 15 + h$

C. $E = \frac{15}{h}$

B. $E = 15h$

D. $E = h - 15$



12)

A point $(6, 2)$ is reflected over the y -axis. Where does the image point appear?

A. $(-6, 2)$

C. $(-6, -2)$

B. $(6, -2)$

D. $(6, 2)$



1) A parallelogram has a base of 20 cm and an area of 140 cm^2 . What is its height?

- A. 5 cm C. 9 cm
 B. 7 cm D. 14 cm

2) A fitness coach records the number of push-ups done by 11 athletes:

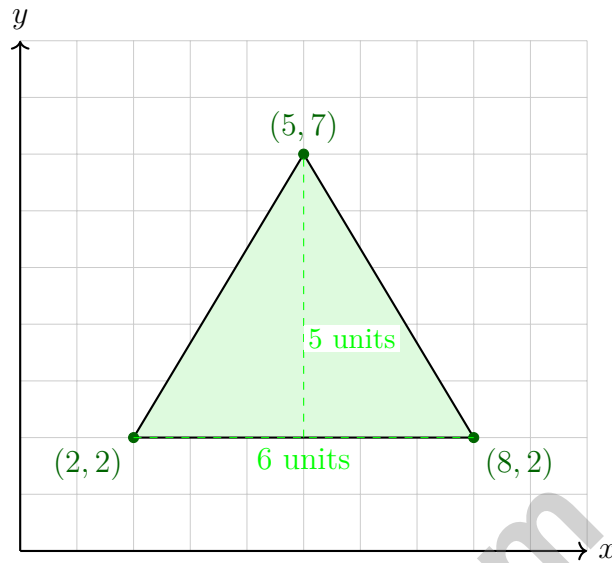
Stem	Leaf
2	3, 5, 8, 9
3	1, 4, 6, 7
4	2, 5, 8

Which interval contains the most data points?

- A. 20–29 C. Both have equal counts
 B. 30–39 D. 40–49
- 3) A rectangular prism has volume 45 cubic inches. Its length is 6 inches and width is $\frac{5}{2}$ inches. What is its height?
- A. 2 in C. 5 in
 B. 6 in D. 3 in
- 4) A bag contains 9 marbles. If the probability of drawing a green marble is $\frac{1}{3}$, how many green marbles are in the bag?



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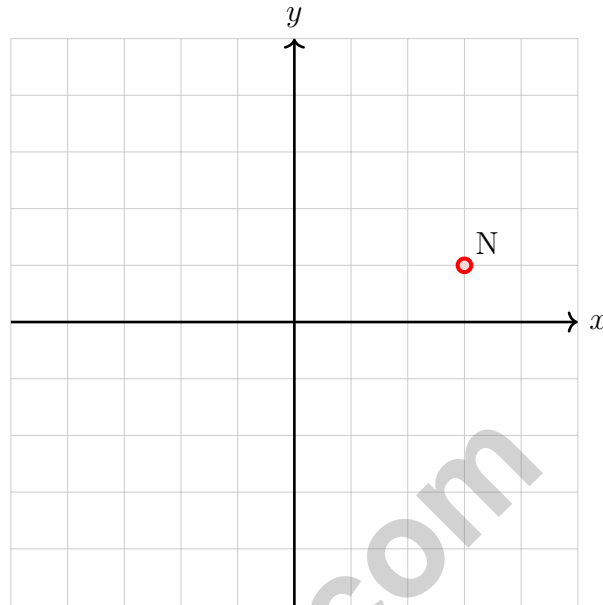


5)

What is the area of this triangle?

- A. 15 square units
- B. 20 square units
- C. 25 square units
- D. 30 square units

6) A statistical question about favorite sports should ask about one student or a group of students?



1)

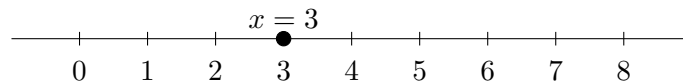
Point N at $(3, 1)$ is translated 2 units to the left and 3 units up. What are the coordinates of N' ?

- | | |
|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> A. $(1, 4)$ | <input type="checkbox"/> C. $(1, -2)$ |
| <input type="checkbox"/> B. $(5, -2)$ | <input type="checkbox"/> D. $(5, 4)$ |

2) A wooden block has dimensions $2\frac{1}{4}$ in by 2 in by 3 in. What is its volume?

- | | |
|---|---|
| <input type="checkbox"/> A. 7.25 in^3 | <input type="checkbox"/> C. 14.5 in^3 |
| <input type="checkbox"/> B. 13.5 in^3 | <input type="checkbox"/> D. 18.5 in^3 |

3)



Which number is less than x ?

- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. 4 | <input type="checkbox"/> C. 1 |
| <input type="checkbox"/> B. 5 | <input type="checkbox"/> D. 6 |



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& answers

4) A factory loses \$2000 per quarter due to equipment issues. After 4 quarters, what is the total financial impact?

A. $-\$500$

B. $-\$2000$

C. $-\$8000$

D. $\$8000$

5) Which expression matches “the difference of the quotient of 18 and 2 and a number w ”?

A. $\frac{18 - w}{2}$

B. $18 - \frac{2}{w}$

C. $w - \frac{18}{2}$

D. $\frac{18}{2} - w$

6) A garden is 8 meters long and w meters wide. The area is $8w$ square meters. In the expression $8w$, what are the factors?

A. 8 and w

B. The area and the width

C. 8 only

D. w only

7) Which expression is equivalent to $3(x + 5)$?

A. $3x + 15$

B. $x + 15$

C. $3x + 8$

D. $3x + 5$

8) A garden is g feet long. After removing a section, it is now 6 feet shorter. Which expression shows the new length?

A. $g + 6$

B. $g - 6$

C. $6g$

D. $\frac{g}{6}$



Georgia Milestones Practice Test Answer Keys

How to use this Georgia Milestones answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to peach-state practice discipline
3. rework the problem before reading the full explanation, using this reminder:
Show the thinking before the answer: circle clues, write the equation, and label the result.

A calm Georgia correction routine turns every missed item into useful practice. Take a round, review the explanations, and set one small target for the next test.



Scan me!
For more practice
& answers

Georgia Practice Test Answers and Explanations

Review the eight printed Milestones tests with confident, thoughtful, and ready for the next challenge habits.

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (6.NR.2.4) The IQR only uses Q1 and Q3, which are based on the middle 50% of data. Outliers in the tails don't directly affect Q1 or Q3. Range, MAD, and mean all include or are influenced by all data points, making them sensitive to outliers.
- 2) **Choice D is correct.** (6.GSR.5.1) $63 = \frac{1}{2} \times 18 \times h \Rightarrow h = 7$ ft.
- 3) **Choice C is correct.** (6.GSR.5.3) $V = 6 \times 5 \times 0.8 = 30 \times 0.8 = 24$ cm³.
- 4) **Choice B is correct.** (6.PAR.8.4) A pentagon has 5 vertices and 5 sides by definition.
- 5) **Choice C is correct.** (6.PAR.6.2) Find GCF(36, 48). Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36. Factors of 48: 1, 2, 3, 4, 6, 8, 12, 16, 24, 48. Common factors: 1, 2, 3, 4, 6, 12. GCF is 12. So Maria can make 12 groups with 3 pencils and 4 erasers each.
- 6) **Choice A is correct.** (6.NR.1.2) We need a negative number times -8 to give positive 56. Check: $(-7) \times (-8) = 56$ (negative times negative is positive).
- 7) **Choice D is correct.** (6.PAR.6.4) The tape diagram shows two equal parts of length $2v$ placed end-to-end. This represents the sum: $2v + 2v = 4v$.
- 8) **Choice D is correct.** (6.PAR.6.2) $4x + 2y$ has 2 terms. $5m + 3n + 2p + 1$ has 4 terms. Total: $2 + 4 = 6$.
- 9) **Choice C is correct.** (6.PAR.7.2) Banana costs $o + 5 = 30 + 5 = 35$ cents.
- 10) **Choice A is correct.** (6.PAR.7.1) Divide both sides by 8: $x = 32 \div 8 = 4$.
- 11) **Choice B is correct.** (6.PAR.8.2) Earnings equal hourly rate multiplied by hours worked: $E = 15h$.
- 12) **Choice A is correct.** (6.PAR.8.4) Reflection over the y -axis changes the sign of the x -coordinate: $(6, 2) \rightarrow (-6, 2)$.
- 13) **Choice B is correct.** (6.PAR.7.4) Although most sixth graders are similar in age, there is still variability. Asking for the "typical" age requires collecting and analyzing data from many students, making it statistical.
- 14) **The correct answer is 3.** (6.PAR.7.4) The boundary value is the number in the inequality, 3.
- 15) **Choice A is correct.** (6.NR.2.3) The peak is in the middle (75) with roughly balanced bars on either side (65 and 85 have similar shapes). This is roughly symmetric.
- 16) **Choice A is correct.** (6.NR.2.4) The data is already ordered. The median is the middle value: 9.
- 17) **Choice A is correct.** (6.NR.2.5) Standard deviation measures spread. Hawks' lower standard deviation ($8 < 14$) indicates more consistent scoring around their mean.
- 18) **The correct answer is The graph is a straight line through the origin, and the ratio of y to x is always constant.** (6.NR.3.6) Statements A and B correctly describe proportional relationships. C is wrong because b must equal 0 for proportionality. D is wrong because proportional equations have the form $y = kx$, not $y = k/x$. E is wrong because a proportional relationship must start at the origin.
- 19) **Choice A is correct.** (6.NR.1.2) 27.5% of 360 is $0.275 \times 360 = 99$ people.
- 20) **Choice B is correct.** (6.NR.2.2) The slope (rise) between months 4 and 5 is $3.1 - 2.8 = 0.3$, the smallest growth. Other intervals show larger increases: $0 \rightarrow 1$ is 0.7, $5 \rightarrow 6$ is 0.4, $6 \rightarrow 7$ is 0.4.
- 21) **Choice D is correct.** (6.NR.4.4) The unit rate is $80 \div 5 = 16$ meters per minute. For 320 meters: $320 \div 16 = 20$ minutes.
- 22) **Choice C is correct.** (6.NR.4.5) $28 \div 7 = 4$ square feet per hour.
- 23) **The correct answer is 50.** (6.GSR.5.1) Area = $\frac{1}{2}(12 + 8) \times 5 = \frac{1}{2}(20)(5) = 50$ cm².
- 24) **Choice A is correct.** (6.NR.4.6) $37.5\% = \frac{3}{8}$. So $\frac{3}{8} \times 800 = 300$ boxes.
- 25) **Choice C is correct.** (6.NR.3.5) Negative integers represent values below zero, losses, or downward directions. Swimming down 5 meters below the surface is represented by -5 meters.
- 26) **Choice A is correct.** (6.NR.1.1) Starting score: -5 . Dropping 2 more means $-5 + (-2) = -7$.



Hi, Math Pilot!

◇ 8 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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

8
PRINTED
TESTS

+

2
ONLINE
TESTS

PERFECT FOR

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence



**PRACTICE TODAY.
SUCCEED TOMORROW.**

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Understand Key Concepts

Reinforce important math ideas aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

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



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

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



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS