

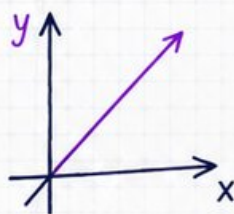
3

Georgia Milestones

GRADE
7
MATH

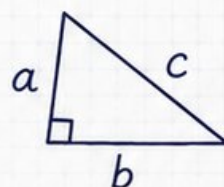
PRACTICE TESTS

- ✓ Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3}x - \frac{4}{5} = \frac{1}{2}$$



$$3(x - 2) = 2x + 5$$



3 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



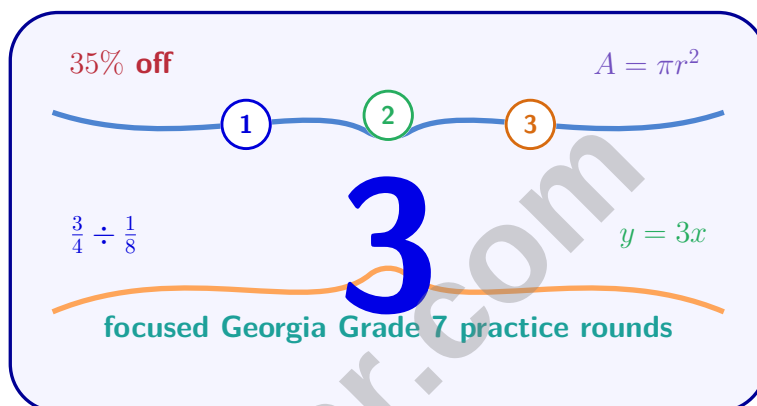
Detailed Answers
& Explanations



Improve Test
Performance

3 Georgia Milestones Grade 7 Math Practice Tests

Georgia Grade 7 Math Review with Complete Answer Support



Three 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!

Three focused rounds for sharper Milestones math thinking

This book gives you three 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 three-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?

Three Milestones tests, 120 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.
Test 3	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.

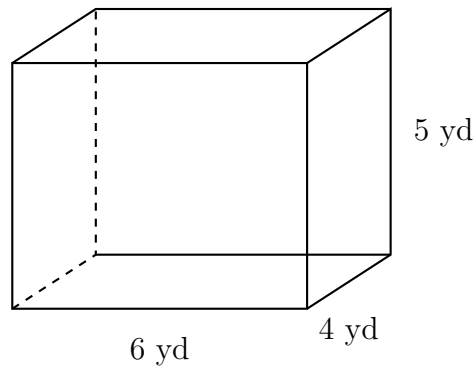
The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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& answers

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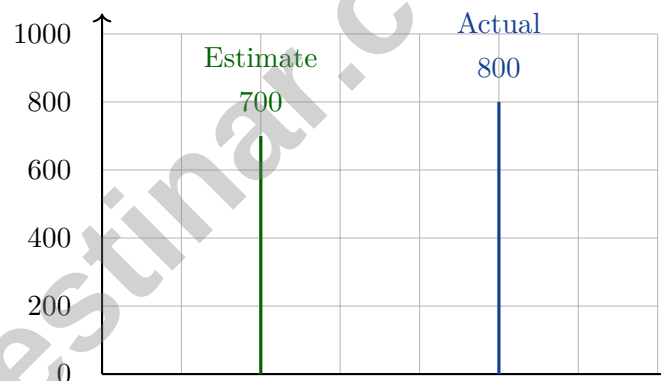
1)

A rectangular prism has dimensions $6 \text{ yd} \times 5 \text{ yd} \times 4 \text{ yd}$. Find the surface area.

☐ A. 120 yd^2 ☐ C. 180 yd^2 ☐ B. 148 yd^2 ☐ D. 240 yd^2

2)

Estimate vs. Actual: Sports Attendance



What is the percent error for the attendance estimate?

☐ A. 14.3%☐ C. 100%☐ B. 8.75%☐ D. 12.5%

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3) Expand and simplify: $2(3x + 5) + 4$

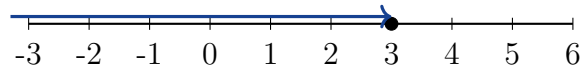
☐ A. $6x + 14$

☐ C. $5x + 14$

☐ B. $6x + 9$

☐ D. $6x + 5$

4) Which number line represents the inequality $x \leq 3$?



☐ A. Open circle at 3 pointing left

☐ C. Open circle at 3 pointing right

☐ B. Closed circle at 3 pointing left

☐ D. Closed circle at 0 pointing left

5) Maya deposits \$1200 into a savings account with a simple interest rate of 4% per year. How much interest will she earn after 2 years?

☐ A. \$48

☐ C. \$144

☐ B. \$240

☐ D. \$96

6) A large blueprint has scale 2 inches : 5 feet. What is the actual length if the blueprint shows 10 inches?

☐ A. 4 feet

☐ C. 20 feet

☐ B. 12.5 feet

☐ D. 25 feet

7) A retailer buys backpacks for \$40 each and marks them up by 75%. What is the selling price?

☐ A. \$60

☐ C. \$115

☐ B. \$105

☐ D. \$70



- 8) A price increases from \$50 to \$65. What is the percent increase?
- ☐ A. 20% ☐ C. 30%
- ☐ B. 25% ☐ D. 35%
- 9) Compute $-6 + (-4)$.
- ☐ A. -10 ☐ C. 2
- ☐ B. -2 ☐ D. 10
- 10) Simplify: $\frac{2}{3}m + \frac{1}{6}m$
- ☐ A. $\frac{3}{9}m$ ☐ C. $\frac{1}{2}m$
- ☐ B. $\frac{5}{6}m$ ☐ D. $\frac{3}{6}m$
- 11) Factor: $-10x - 20$
- ☐ A. $-10(x + 2)$ ☐ C. $-10(x - 2)$
- ☐ B. $10(x - 2)$ ☐ D. $10(-x - 2)$
- 12) A simulation of rolling two dice uses two spinners, each with 6 equal sections numbered 1–6. If the simulation is performed 120 times, approximately how many times would you expect to see a sum of 7?
- ☐ A. 10 times ☐ C. 20 times
- ☐ B. 15 times ☐ D. 25 times
- 13) A stock price drops by \$2.50 on Monday, rises by \$1.75 on Tuesday, and drops by \$0.85 on Wednesday. What is the net change?
- ☐ A. -\$1.60 ☐ C. \$0.90
- ☐ B. -\$1.10 ☐ D. \$1.60



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- 1) A student compared two dot plots and made this claim: "Distribution A has a median of 50 and Distribution B has a median of 55, so B is always greater." Identify the error.

- ☐ A. Median is typical value, not a guarantee; distributions can overlap
☐ B. Medians are always accurate
☐ C. Distribution A must be higher
☐ D. Comparison requires ranges, not medians

Step 1: $4x = 20$

(Divide by 4)

Step 2: $x = 5$

2)

What equation did Step 1 start from?

- ☐ A. $4x + 5 = 20$
☐ B. $4x - 5 = 15$
☐ C. $4x + 8 = 28$
☐ D. $4x - 4 = 16$

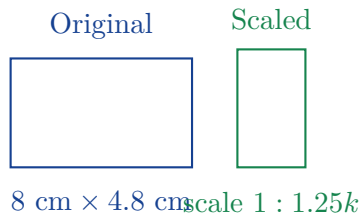
- 3) An athlete's personal record was 12 seconds. After training, the record improved to 10.56 seconds. What is the percent decrease in time?

- 4) A photograph is scaled down by a factor of $\frac{1}{4}$. If the original photograph is 8 inches wide, what is the width of the scaled version?

- ☐ A. 1 inch
☐ B. 2 inches
☐ C. 4 inches
☐ D. 6 inches



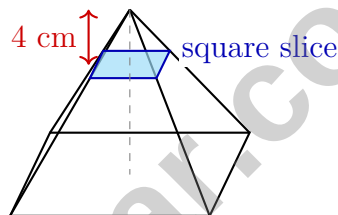
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5)

A scale drawing of a rectangular room is $8\text{ cm} \times 4.8\text{ cm}$. The drawing is enlarged proportionally so the new dimensions are $10\text{ cm} \times 6\text{ cm}$. If the original scale was $1\text{ cm} : 5\text{ m}$, what is the scale of the enlarged drawing?

- ☐ A. $1\text{ cm} : 4\text{ m}$
☐ C. $1\text{ cm} : 3.125\text{ m}$
☐ B. $1\text{ cm} : 6.25\text{ m}$
☐ D. $1\text{ cm} : 2.5\text{ m}$



6)

A square pyramid is cut by a plane parallel to its base. The cross-section is a square. If the pyramid has a height of 12 cm and the cut is made 4 cm from the apex, how does the area of the cross-section compare to the base?

- ☐ A. It is $\frac{1}{3}$ of the base area
 ☐ C. It is $\frac{4}{9}$ of the base area
☐ B. It is $\frac{1}{9}$ of the base area
 ☐ D. It is $\frac{4}{12}$ of the base area

7) An angle is 8° more than its complement. What is the measure of the smaller angle?

- ☐ A. 49°
☐ C. 56°
☐ B. 41°
☐ D. 82°



1)

Hours Worked	Earnings (\$)
1	12
2	24
3	36
4	48

Which equation represents the relationship where h = hours and E = earnings?

☐ A. $E = h + 12$

☐ C. $E = 12 + h$

☐ B. $E = 12h$

☐ D. $E = h^2 + 11$

2) A standard six-sided die is rolled. The model is uniform. Find $P(\text{prime})$.

☐ A. $\frac{1}{6}$

☐ C. $\frac{1}{2}$

☐ B. $\frac{1}{3}$

☐ D. $\frac{2}{3}$

3) A bank charges a 3% fee on ATM withdrawals outside its network. If a customer withdraws \$300 from an out-of-network ATM, what is the ATM fee?

☐ A. \$6.00

☐ C. \$12.00

☐ B. \$15.00

☐ D. \$9.00

4) Aisha earns \$1 800 per month. Her net income (take-home pay) is \$1 530 after taxes and deductions. What percentage of her gross income is her net income?

☐ A. 80%

☐ C. 85%

☐ B. 82%

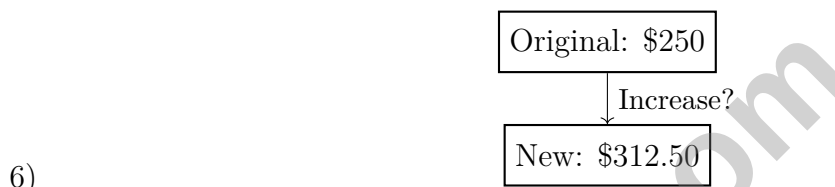
☐ D. 90%



- 5) An account earns interest compounded annually. If the balance grows from \$1,000 to \$1,440 in 2 years, what is the annual interest rate?

Year	Multiplier	Balance
0	—	\$1,000
1	$(1 + r)$	?
2	$(1 + r)^2$	\$1,440

- ☐ A. 20% ☐ C. 44%
☐ B. 22% ☐ D. 50%



A diagram shows an original price of \$250 increased to \$312.50. What is the percent increase?

- ☐ A. 20% ☐ C. 30%
☐ B. 62.50% ☐ D. 25%
- 7) A cube has surface area 600 cm^2 . What is its edge length?
- ☐ A. 5 cm ☐ C. 100 cm
☐ B. 10 cm ☐ D. 3600 cm
- 8) What is $-8 + 5$?
- ☐ A. -13 ☐ C. 3
☐ B. 13 ☐ D. -3



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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.G.4-7.G.6) $SA = 2(6 \cdot 5 + 6 \cdot 4 + 5 \cdot 4) = 2(30 + 24 + 20) = 2(74) = 148 \text{ yd}^2$.
- 2) **Choice D is correct.** (7.RP.3) Percent error = $\frac{|700-800|}{800} \times 100\% = \frac{100}{800} \times 100\% = 12.5\%$.
- 3) **Choice A is correct.** (7.EE.1-7.EE.2) Expand: $2(3x) + 2(5) + 4 = 6x + 10 + 4 = 6x + 14$.
- 4) **Choice B is correct.** (7.EE.4b) $x \leq 3$ means less than or equal to 3 (includes 3), so use a closed circle at the boundary 3 and an arrow pointing left toward smaller values.
- 5) **Choice D is correct.** (7.RP.3) STEP 1: Convert percentage to decimal: $4\% = 4 \div 100 = 0.04$. STEP 2: $I = 1200 \times 0.04 \times 2 = \96 .
- 6) **Choice D is correct.** (7.RP.1-7.RP.3) Scale is 2 : 5, so 1 : 2.5. Actual length: $10 \times 2.5 = 25$ feet.
- 7) **Choice D is correct.** (7.RP.3) Markup = $0.75 \times 40 = \$30$. Selling price = $40 + 30 = \$70$.
- 8) **Choice C is correct.** (7.RP.3) The increase is $65 - 50 = 15$. Percent: $\frac{15}{50} = 0.30 = 30\%$.
- 9) **Choice A is correct.** (7.NS.1b) When adding two negative numbers, add their absolute values and keep the negative sign: $|-6| + |-4| = 10$, so $-6 + (-4) = -10$.
- 10) **Choice B is correct.** (7.EE.1) Convert to common denominator: $\frac{2}{3}m = \frac{4}{6}m$. Then $\frac{4}{6}m + \frac{1}{6}m = \frac{5}{6}m$.
- 11) **Choice A is correct.** (7.EE.1-7.EE.2) Factor out -10 : $-10x - 20 = -10(x + 2)$. Check: $-10(x + 2) = -10x - 20$.
- 12) **Choice C is correct.** (7.SP.5-7.SP.8) Outcomes that sum to 7: (1, 6), (2, 5), (3, 4), (4, 3), (5, 2), (6, 1) — that's 6 out of 36 equally likely outcomes. Probability = $\frac{6}{36} = \frac{1}{6}$. Expected frequency = $\frac{1}{6} \times 120 = 20$.
- 13) **Choice A is correct.** (7.NS.1-7.NS.3) Net change = $-\$2.50 + \$1.75 - \$0.85 = -\1.60 .
- 14) **Choice C is correct.** (7.NS.1-7.NS.3) The large positive exponent 19 indicates an astronomical distance far beyond our solar system.
- 15) **Choice C is correct.** (7.EE.1-7.EE.2) Substitute: $2(5) + 3(2) = 10 + 6 = 16$.
- 16) **Choice A is correct.** (7.EE.4b) Rewrite as $x + 4 < 8$. Subtract 4: $x < 4$.
- 17) **Choice C is correct.** (7.G.1-7.G.5) Scale factor 1 : 3 means $\frac{\text{smaller}}{\text{larger}} = \frac{1}{3}$. So $\frac{5}{\text{larger}} = \frac{1}{3}$, giving larger = $5 \times 3 = 15$ cm.
- 18) **Choice D is correct.** (7.G.4-7.G.6) $C = \pi d = 3.14 \times 12 = 37.68 \approx 38$ ft.
- 19) **The correct answer is C,D.** (7.SP.1-7.SP.4) The total amounts are not given, so A and B cannot be determined from the percentages alone. Region Y has 50% indoor and 50% outdoor use, so C is correct. Region Y's outdoor percentage (50%) is higher than Region X's outdoor percentage (40%), so D is correct.
- 20) **Choice B is correct.** (7.G.4-7.G.6) From $28.26 = 3.14 \times r^2$, we get $r^2 = 9$, so $r = 3$ inches. Diameter = $2 \times 3 = 6$ inches.
- 21) **Choice B is correct.** (7.G.4-7.G.6) $V = \pi r^2 h \Rightarrow 269.23 = 3.14 \times 12.25 \times h \Rightarrow 269.23 = 38.465h \Rightarrow h = 7$ inches.
- 22) **Choice B is correct.** (7.SP.1-7.SP.4) Only surveying willing patients from one hospital creates two forms of bias that prevent accurate comparison.
- 23) **Choice D is correct.** (7.RP.1-7.RP.3) For $C = 3b$, the line must pass through the origin. Graph A passes through (0, 0), (1, 3), and (2, 6). Graph B does not pass through the origin.
- 24) **Choice D is correct.** (7.RP.1-7.RP.3) Calculate the unit rate from each data point: $\$450 \div 3 = \150 per month and $\$1200 \div 8 = \150 per month. Since both unit rates are $\$150$ per month, the relationship is proportional.
- 25) **The correct answer is -17 .** (7.NS.1-7.NS.3) The new balance is $-5 - 12 = -17$. You now owe 17 dollars.
- 26) **Choice C is correct.** (7.RP.3) Find 55% of 200 using the proportion $\frac{55}{100} = \frac{x}{200}$. Cross-multiply: $x = 110$.
- 27) **Choice D is correct.** (7.RP.3) Simple interest = $P \times r \times t = \$1,000 \times 0.05 \times 1 = \50 .
- 28) **The correct answer is $\frac{35}{24}$.** (7.RP.1-7.RP.3) $\frac{\frac{7}{8}}{\frac{5}{3}} = \frac{7}{8} \times \frac{3}{5} = \frac{35}{24}$.
- 29) **Choice C is correct.** (7.NS.1-7.NS.3) Starting at -2.5 and moving right 4.7 units: $-2.5 + 4.7 = 2.2$.
- 30) **The correct answer is 1.5.** (7.RP.1-7.RP.3) The unit price is $\$1.50$ per apple, so the constant of proportionality is 1.5.



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Hi, Grade 7 Math Star!

◇ You finished this practice set with real effort. Grade 7 math asks you to connect ideas, explain your thinking, and stay steady through multi-step problems. ◇

★ **Remember this:** Every page you completed helped build stronger habits: reading carefully, choosing a method, showing work, and checking whether the answer makes sense. You practiced across 3 full Grade 7 practice tests, and that repeated effort matters. ★

What You Built

- **Focus:** You stayed with challenging questions.
- **Accuracy:** You learned to slow down when details matter.
- **Reasoning:** You practiced explaining why a method works.
- **Readiness:** You are more prepared than when you started.

Grade 7 test-day tip: Before test day, review the questions that made you pause. Those are the best teachers.

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

Jay Daie

Your Grade 7 Math Friend

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **3** 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:

3 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.



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Develop key math concepts and problem solving abilities.



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- ✓ 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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