

10 Alabama ACAP

GRADE
6
MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



10 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



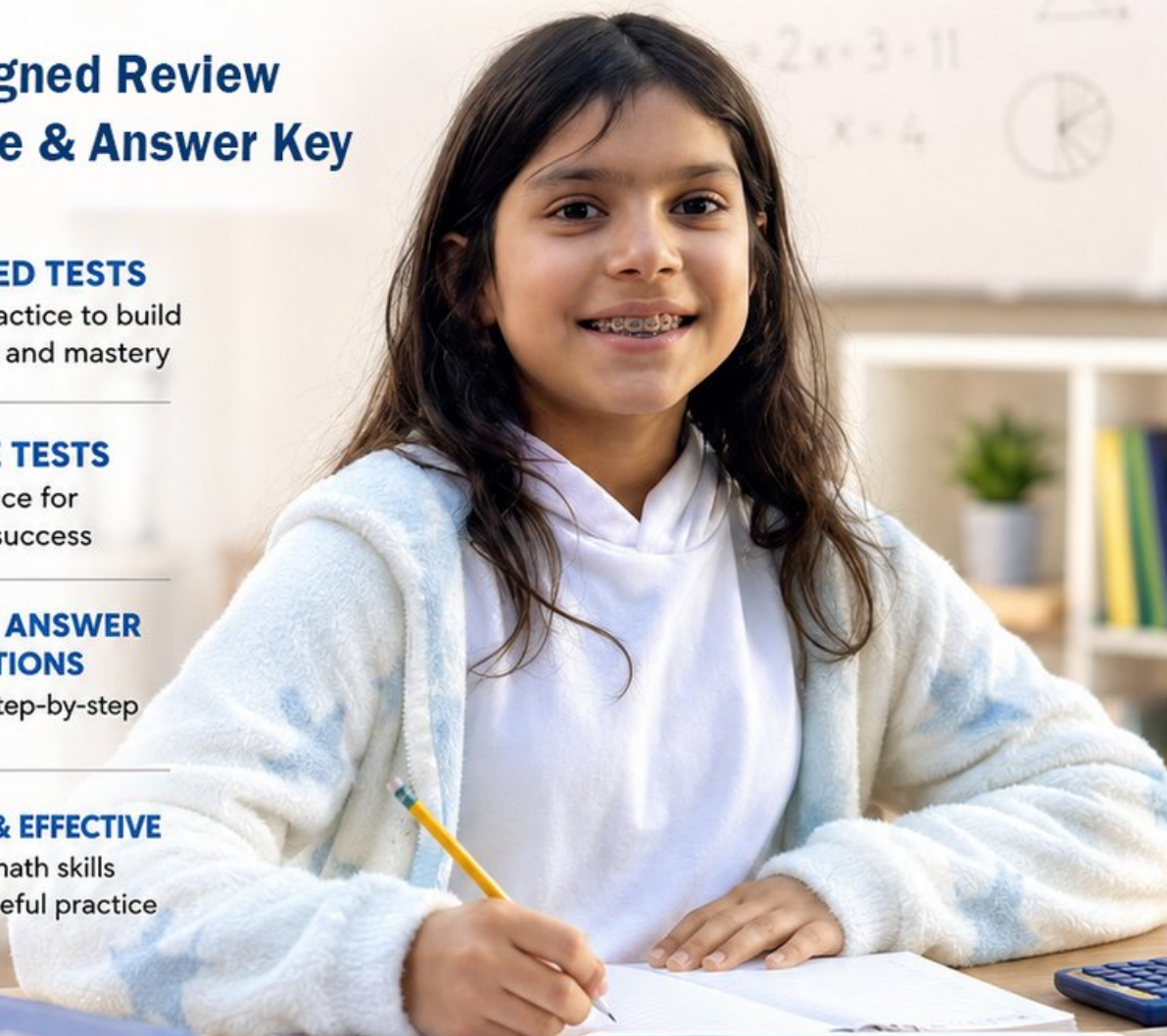
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



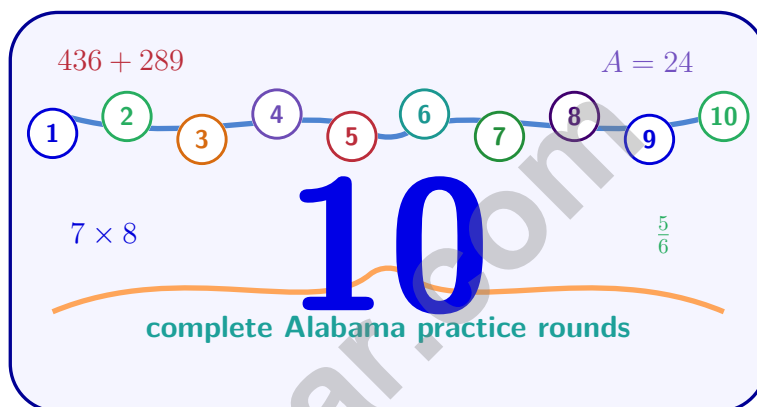
10 PRINTED TESTS
+ 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 Alabama ACAP Grade 6 Math Practice Tests

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



Ten complete 40-question Grade 6 practice rounds for ACAP, 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, Alabama Math Explorer!

Ten steady rounds on a Gulf Coast-to-hills math trail

This book gives you ten full Grade 6 practice tests for ACAP. Each round uses river bridges, pine woods, and Gulf Coast routes as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Alabama Practice Promise

Read the question like a map, then prove each step. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for steady Southern problem solving

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Alabama review rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten ACAP tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final Alabama 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. Steady southern problem solving means recognizing the skill even when the next question changes topic.



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& answers

Table of Contents

★ Practice Test 1	_____	13
★ Practice Test 2	_____	27
★ Practice Test 3	_____	43
★ Practice Test 4	_____	59
★ Practice Test 5	_____	73
★ Practice Test 6	_____	90
★ Practice Test 7	_____	105
★ Practice Test 8	_____	121
★ Practice Test 9	_____	136
★ Practice Test 10	_____	152
Practice Test Answer Keys	_____	167
Practice Test Answers and Explanations	_____	173

- 1) A museum exhibit uses a scale model where 1 inch = 7 feet. If the actual hall is 91 feet long, how many inches should the model be?
- A. 13 inches C. 98 inches
 B. 84 inches D. 637 inches
- 2) Two people compare budgets. Person A saves 20% of \$800, and Person B saves 40% of \$400. Who saves more?
- A. Person A saves more. C. They save the same amount.
 B. Person B saves more. D. Cannot be determined.
- 3) Compute: $\frac{3}{10} \div \frac{1}{5}$
- A. $\frac{3}{50}$ C. $\frac{3}{2}$
 B. $\frac{3}{15}$ D. 2

Quotient Estimation: $4,756 \div 26$

Round 4,756 → 4,800

Round 26 → 25

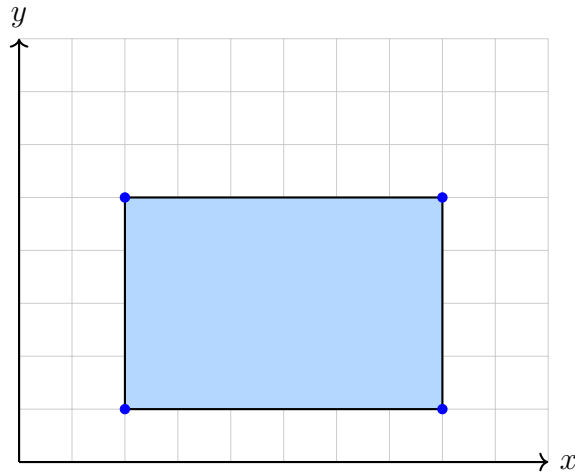
$4,800 \div 25 = 192$

Estimated quotient: \approx **183** (actual closer to 182)

- 4) What is $4,756 \div 26$? Which choice is closest to the actual quotient?
- A. 180 C. 190
 B. 183 D. 200



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5)

What is the area of the rectangle shown above?

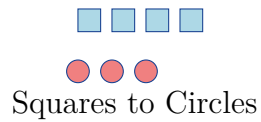
6) A bakery bakes cookies in batches. Each batch uses 12 cups of flour and 8 cups of sugar. What is the simplified ratio of flour to sugar?

 A. 2 : 3 C. 12 : 8 B. 6 : 4 D. 3 : 2

7) A stem-and-leaf plot has stem = tens digit, leaf = ones digit. If dataset is {32, 35, 37, 42, 45, 51}, what is the median?

 A. 37 C. 39.5 B. 39 D. 42

- 1) The diagram shows a pattern of squares and circles.



Which statement describes the ratio shown?

- A. For every 3 squares there are 4 circles.
- B. For every 2 squares there are 3 circles.
- C. For every 3 squares there are 2 circles.
- D. For every 4 squares there are 3 circles.
- 2) Solve for x : $\frac{x}{4} = 8$.

- 3) A right triangle has legs of 11 inches and 18 inches. Calculate the area of the triangle.



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4)

A composite figure consists of a rectangle and a triangle. The rectangle has vertices at $(1, 1)$, $(9, 1)$, $(9, 6)$, and $(1, 6)$. The triangle has vertices at $(9, 1)$, $(12, 1)$, and $(9, 6)$. What is the total area in square units?

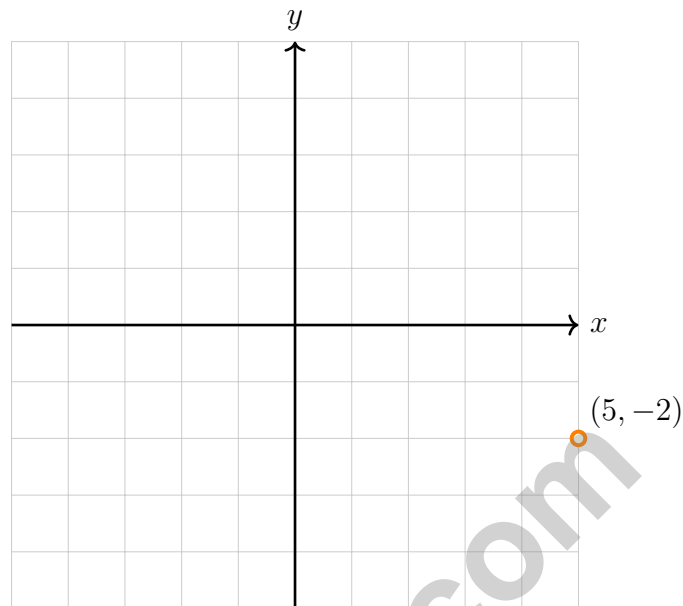
5) In the equation $y = 5x + 2$, which quantity changes as x increases?

- | | |
|--|--|
| <input type="checkbox"/> A. The slope | <input type="checkbox"/> C. The value of y |
| <input type="checkbox"/> B. The y -intercept | <input type="checkbox"/> D. The value of 5 |

6) A circle has a radius of 7 meters. Using $\pi \approx \frac{22}{7}$, what is the approximate area?

- | | |
|--|---|
| <input type="checkbox"/> A. 22 m^2 | <input type="checkbox"/> C. 154 m^2 |
| <input type="checkbox"/> B. 44 m^2 | <input type="checkbox"/> D. 308 m^2 |





1)

If point (a, b) is reflected over the y -axis, the image is at $(-a, b)$. Using this rule, what is the image of $(5, -2)$?

A. $(-5, 2)$

C. $(5, -2)$

B. $(-5, -2)$

D. $(5, 2)$

2) What is $\frac{3}{6}$ as a percent?

A. 30%

C. 50%

B. 36%

D. 60%

3) What is 8% of \$500?

A. \$20

C. \$80

B. \$40

D. \$100



Alabama ACAP Practice Test Answer Keys

How to use this section with a Grade 6 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (6.1) Divide the actual length by the scale: $91 \text{ feet} \div 7 \text{ feet/inch} = 13 \text{ inches}$.
- 2) **Choice C is correct.** (6.23) Person A: $20\% \text{ of } \$800 = 0.20 \times 800 = \160 . Person B: $40\% \text{ of } \$400 = 0.40 \times 400 = \160 . Both save \$160.
- 3) **Choice C is correct.** (6.4) $\frac{3}{10} \times 5 = \frac{15}{10} = \frac{3}{2}$.
- 4) **Choice B is correct.** (6.5) The estimate is ≈ 192 . The exact answer is $4,756 \div 26 = 182 \text{ remainder } 24$, which rounds to 183 as the closest choice.
- 5) **The correct answer is 24.** (6.25) Length = $8 - 2 = 6$ units; width = $5 - 1 = 4$ units. Area = $6 \times 4 = 24$ square units.
- 6) **Choice D is correct.** (6.1) Start with flour to sugar: $12 : 8$. Divide both parts by the GCF, 4, to get $3 : 2$.
- 7) **Choice C is correct.** (6.23) With 6 values, the median is the average of the 3rd and 4th values: $(37 + 42)/2 = 39.5$.
- 8) **Choice A is correct.** (6.4) $17.5\% \text{ of } 520 = 0.175 \times 520 = 91$ customers.
- 9) **Choice D is correct.** (6.21) Middle school is the 5-part amount, and it equals 250. Each part is $250 \div 5 = 50$, so elementary school has $7 \times 50 = 350$ students.
- 10) **Choice A is correct.** (6.2) A rate compares two quantities with different units. Divide the distance by the time: $180 \div 3 = 60$ miles per hour.
- 11) **Choice D is correct.** (6.14) $12 \div \frac{5}{2} = 12 \times \frac{2}{5} = \frac{24}{5} = 4.8$ miles per hour.
- 12) **The correct answer is (2, 1).** (6.25) Translate: $(4, 0) \rightarrow (4 - 2, 0 + 1) = (2, 1)$.
- 13) **Choice B is correct.** (6.3) The ratio is $6 : 5$. When guitars are 18 (multiply by 3), drums are $5 \times 3 = 15$.
- 14) **Choice B is correct.** (6.11) The unit rate (speed) is $\frac{110 \text{ miles}}{2 \text{ hours}} = 55$ miles per hour. The equation is $d = 55t$, where d is distance and t is time.
- 15) **The correct answer is 2.4.** (6.23) Mean = $(6 + 8 + 10 + 12 + 14)/5 = 10$. Deviations: $|6 - 10| = 4$, $|8 - 10| = 2$, $|10 - 10| = 0$, $|12 - 10| = 2$, $|14 - 10| = 4$. MAD = $(4 + 2 + 0 + 2 + 4)/5 = 2.4$.
- 16) **Choice B is correct.** (6.3) $\frac{20}{80} = \frac{1}{4} = \frac{25}{100} = 25\%$.
- 17) **Choice C is correct.** (6.18) $\frac{18}{40} = 0.45 = 45\%$.
- 18) **Choice B is correct.** (6.3) Unit price: $3.75 \div 15 = 0.25$ dollars per ounce.
- 19) **Choice A is correct.** (6.3) Divide: $2500 \div 1000 = 2.5$ kg. The student's error of multiplying would give an absurdly large number.
- 20) **Choice D is correct.** (6.9) Overspend: $\$180 - \$150 = \$30$. Percentage: $\frac{\$30}{\$150} = 0.20 = 20\%$.
- 21) **Choice B is correct.** (6.1) A proportional relationship has a constant ratio between variables. Its graph is a straight line through the origin, and the constant ratio is the constant of proportionality.
- 22) **The correct answer is The area is $A = 10 \times 6 = 60 \text{ cm}^2$ using the formula $A = \text{base} \times \text{height}$.** (6.26) Statements D and E are correct. Statement A is wrong ($10 \times 7 \neq 70$, and the slanted side should not be used). Statement B is wrong because the slanted side is not part of the area formula. Statement C is wrong because the height is perpendicular to the base, not the slanted side length.
- 23) **Choice B is correct.** (6.6) Multiply: $2.5 \times 3 = 7.5$ kg.
- 24) **Choice B is correct.** (6.8) Multiples of 8: 8, 16, 24, 32, ... Multiples of 12: 12, 24, 36, ... The least common multiple is 24.
- 25) **Choice B is correct.** (6.7) GCF of 14 and 21 is 7. So $14 + 21 = 7(2 + 3)$. Only Choice B uses the GCF with whole numbers.
- 26) **Choice D is correct.** (6.9) Absolute value represents distance from zero. Both 6 and -6 are exactly 6 units away from zero, so $|6| = |-6| = 6$.
- 27) **The correct answer is 9.** (6.24) Upper whisker length = $\max - Q_3 = 35 - 26 = 9$.
- 28) **Choice A is correct.** (6.13) Zero is its own opposite. $0 = -0$.
- 29) **Choice B is correct.** (6.10) Values between -1 and 0 are negative decimals closer to zero. Only -0.7 satisfies $-1 < x < 0$.



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Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen problem-solving abilities, and reach their full potential.

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

PERFECT FOR:

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



**CONFIDENCE TODAY.
SUCCESS 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.



Deepen Understanding

Reinforce key math concepts 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
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ 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.



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DETAILED ANSWER
EXPLANATIONS