

6

Alabama ACAP

GRADE 5 MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



$$A = \frac{1}{2}bh$$



$$5^2 = 25$$



**6 FULL-LENGTH
PRACTICE TESTS**

Realistic style questions



**STANDARDS-BASED
PRACTICE**

Covers all Grade 5
Math standards



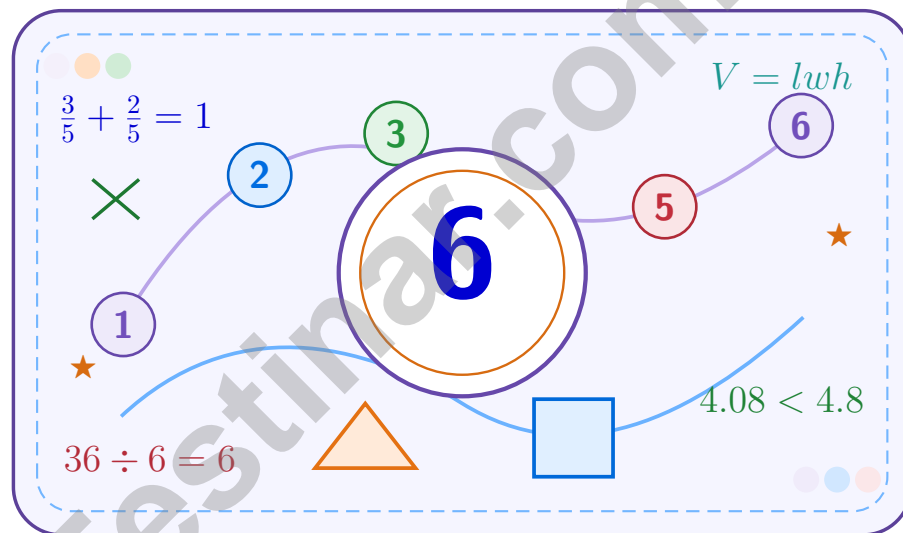
**BUILD CONFIDENCE.
IMPROVE SCORES.**

Target weak areas and
achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

6 Alabama ACAP Grade 5 Math Practice Tests

A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

How to Use This Book

A simple practice routine that turns six tests into steady growth

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



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Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Alabama ACAP. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



Table of Contents

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Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

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TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

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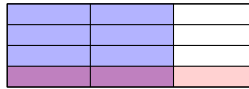
1 day = 24 hours (hr) 1 year = 52 weeks



1) A batch of cookies has 48 cookies. If you eat $\frac{1}{8}$ of the batch, how many cookies do you eat?

- A. 6 cookies C. 24 cookies
 B. 8 cookies D. 40 cookies

2) A rectangular piece of fabric has length $\frac{2}{3}$ yard and width $\frac{1}{4}$ yard. The area model below shows the product.



What is the area in square yards?

- A. $\frac{3}{7}$ C. $\frac{2}{7}$
 B. $\frac{1}{6}$ D. $\frac{3}{12}$

3) A bakery box is 14 inches long, 10 inches wide, and 6 inches tall. Two such boxes are stacked. What is the total volume?

Two boxes stacked
each $14 \times 10 \times 6$ in

- A. 840 in^3 C. 1680 in^3
 B. 1200 in^3 D. 2000 in^3

4) Multiply: $\frac{2}{9} \times \frac{3}{4}$

- A. $\frac{1}{6}$ C. $\frac{2}{4}$
 B. $\frac{5}{13}$ D. $\frac{1}{4}$



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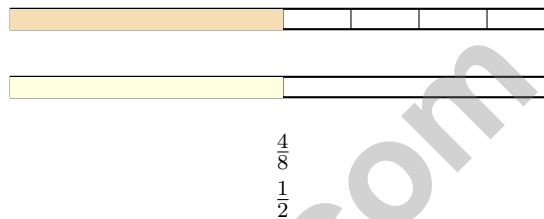


1) The number 4.02 is shown using an arrow diagram. Which operation is missing?



- A. 10
- B. 100
- C. $\frac{1}{10}$
- D. $\frac{1}{100}$

2) Use fraction bars. Top bar: 4 parts out of 8 shaded. Bottom bar: 1 part out of 2 shaded. What do they show?



- A. The bars show different amounts
- B. The bars show equivalent amounts
- C. The top bar is larger
- D. The bottom bar is larger

3) Which statement is true without evaluating?

- A. $9 \times (6 + 4) = 9 + 6 + 4$
- B. $9 \times (6 + 4) = 9 \times 6 + 4$
- C. $9 \times (6 + 4) = 9 + 6 \times 4$
- D. $9 \times (6 + 4) = 9 \times 6 + 9 \times 4$

4) Marcus reads $\frac{2}{10}$ of a book on Monday and $\frac{5}{10}$ on Tuesday. What fraction does he read in total?

- A. $\frac{3}{10}$
- B. $\frac{5}{10}$
- C. $\frac{7}{10}$
- D. $\frac{10}{10}$



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1) A store stacks 5 identical rectangular boxes. Each box measures 4 centimeters by 4 centimeters by 2 centimeters. What is the total volume of all the boxes?

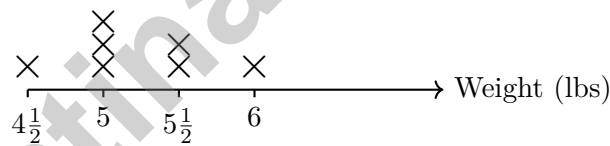
- A. 32 cubic centimeters C. 37 cubic centimeters
 B. 160 cubic centimeters D. 192 cubic centimeters

2) Which shows the correct quotient and remainder?

Choice	Division	Quotient	Remainder
A	$850 \div 25$	34	1
B	$963 \div 18$	53	9
C	$741 \div 39$	18	0
D	$1,024 \div 32$	32	1

- A. A C. C
 B. B D. D

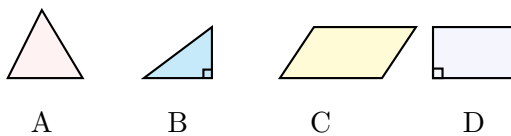
3) The line plot shows the weight (in pounds) of bags of dog food purchased:



How much dog food was purchased in total?

- A. 35 pounds C. $36\frac{1}{2}$ pounds
 B. 36 pounds D. 37 pounds

4) Use the markings in the figures. Which shape has no parallel sides and no right angles?



- A. A C. C
 B. B D. D



Grade 5 Mathematics Reference Materials

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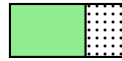
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$$1\frac{1}{2}$$



$$4\frac{1}{5}$$

1)

Add: $1\frac{1}{2} + 4\frac{1}{5}$ (Unlike Denominators)

- A. $5\frac{3}{7}$
- B. $5\frac{7}{10}$

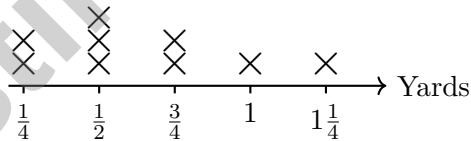
- C. $6\frac{1}{10}$
- D. $5\frac{1}{10}$

2) Ben spends \$12 on pencils and \$5 on erasers each week for 3 weeks. Which expression shows his total spending?

- A. $3 \times (12 + 5)$
- B. $3 + (12 \times 5)$

- C. $12 \times 5 \times 3$
- D. $3 \times 12 + 5$

3) The line plot shows lengths of ribbon pieces, in yards:



What is the total length of all the ribbon pieces?

- A. $5\frac{1}{4}$ yards
- B. $5\frac{3}{4}$ yards

- C. $6\frac{1}{4}$ yards
- D. $6\frac{3}{4}$ yards



Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (5.13) $48 \times \frac{1}{8} = 6$ cookies. Multiplying by $\frac{1}{8}$ gives one-eighth of the original amount.
- 2) **Choice B is correct.** (5.18) Area = length \times width = $\frac{2}{3} \times \frac{1}{4} = \frac{2}{12} = \frac{1}{6}$ square yard.
- 3) **Choice C is correct.** (5.18) One box: $14 \times 10 \times 6 = 840 \text{ in}^3$. Two boxes: $840 \times 2 = 1680 \text{ in}^3$.
- 4) **Choice A is correct.** (5.12) $\frac{2}{9} \times \frac{3}{4} = \frac{6}{36}$. Simplify by dividing numerator and denominator by 6: $\frac{6}{36} = \frac{1}{6}$.
- 5) **Choice D is correct.** (5.10) $5\frac{2}{5} = \frac{27}{5}$ and $2\frac{3}{5} = \frac{13}{5}$. Subtracting: $\frac{27}{5} - \frac{13}{5} = \frac{14}{5}$.
- 6) **The correct answer is $4 \div \frac{1}{5} = n$.** (5.14) The total rope length is 4 meters and each piece is one fifth meter, so students should show 4 divided by $\frac{1}{5}$. The final value, 20, may be included if the equation is shown.
- 7) **Choice B is correct.** (5.17) Each foot has 12 inches. $25 \times 12 = 300$, so 25 feet equals 300 inches.
- 8) **Choice A is correct.** (5.18) Each layer has $3 \times 3 = 9$ unit cubes. Three layers have 27 unit cubes. Removing one full layer removes 9 unit cubes, so $27 - 9 = 18$ unit cubes remain.
- 9) **Choice C is correct.** (5.15) Count the X marks above each value. The value $1\frac{1}{4}$ has 3 marks, which is more than any other value.
- 10) **The correct answer is 1000.** (5.3) 10^3 is a 1 followed by 3 zeros: 1,000.
- 11) **Choice B is correct.** (5.20) The time values increase by 2, so the next time is 8 seconds. The position values increase by 5, so the next position is 20 meters. The next point is (8, 20).
- 12) **Choice B is correct.** (5.3) $7.4 \times 10 = 74$ and $74 \times 1 = 74$, so they are equal.
- 13) **Choice B is correct.** (5.18) $2 \times 3 \times 3 = 18$ cu. in. Choice A: $2 \times 3 \times 2 = 12$. Choice C: $3 \times 3 \times 1 = 9$. Choice D: $2 \times 2 \times 5 = 20$.
- 14) **Choice C is correct.** (5.22) The circle for squares is completely inside the circle for rectangles, so every square shown is also a rectangle.
- 15) **Choice C is correct.** (5.9) $\frac{1}{8} \approx 0.13$, $\frac{1}{10} = 0.10$, and $\frac{1}{12} \approx 0.08$. The sum is about 0.31, which is closest to $\frac{1}{3}$ meter.
- 16) **Choice D is correct.** (5.12) The product of 6 and 9 is 6×9 . The phrase “8 less than” means subtract 8 from that product.
- 17) **Choice C is correct.** (5.8) Add dollars and cents by place value: $3.68 + 2.47 = 6.15$. The total cost is \$6.15.
- 18) **Choice C is correct.** (5.17) Morning total: $28.7 + 19.3 = 48$ kg. Afternoon total: $31.4 + 22.6 = 54$ kg. Difference: $54 - 48 = 6$ kg.
- 19) **Choice B is correct.** (5.12) $\frac{1}{4} \div 5 = \frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$.
- 20) **The correct answer is 50.** (5.1) Innermost first: $8 + 2 = 10$. Then $10 \times 3 = 30$. Then $30 - 5 = 25$. Finally $25 \times 2 = 50$.
- 21) **Choice B is correct.** (5.20) An ordered pair tells how far to move right first, then how far to move up. The point is 5 units right and 3 units up, so it is (5, 3).
- 22) **Choices A, B are correct.** (5.20) A and B each have two coordinates greater than 0. Choices C and D each include 0, so they do not match the prompt.
- 23) **Choice A is correct.** (5.14) Start with one unit fraction, $\frac{1}{7}$, and share it into 4 equal parts. Each part is $\frac{1}{7} \div 4 = \frac{1}{28}$ of the whole.
- 24) **Choice D is correct.** (5.13) Since $\frac{5}{4}$ is greater than 1, multiplying 12 by $\frac{5}{4}$ makes a product greater than 12. The other fractions shown are less than 1, so their products are less than 12.
- 25) **The correct answer is 5.75.** (5.8) Write $9.40 - 3.65$. Regroup 1 tenth as 10 hundredths, then subtract by place value: $9.40 - 3.65 = 5.75$.
- 26) **Choice D is correct.** (5.6) Multiply: $43 \times 6 = (40 \times 6) + (3 \times 6) = 240 + 18 = 258$.
- 27) **Choice B is correct.** (5.3) Divide pennies by 100 to convert to dollars: $8,400 \div 100 = 84$. So Carla has \$84.
- 28) **Choice D is correct.** (5.15) $12 \div \frac{1}{2} = 12 \times 2 = 24$.
- 29) **Choice C is correct.** (5.3) The pattern moves the decimal one more place right each time the power of 10 grows. For 1,000, move three places right to get 2,500.



Hey there, Mathematical Inventor!

★ Brilliant innovation session! You've engineered solutions to six complete practice tests, designing creative approaches and building mathematical machines in your mind like a master inventor! Every problem you solved required you to design a solution strategy, test different approaches, and refine your methods. That's exactly what inventors do, and you've become exceptionally skilled at it! ★

◇ **Here's what successful inventors understand:** the first prototype rarely works perfectly. Great inventors test, adjust, redesign, and improve until they create something remarkable. You've practiced that exact process through these six tests! Each mistake taught you to refine your approach, and now you have a toolbox full of reliable mathematical inventions ready to use! ◇

Inventor's Workshop: Your Creations

- **Problem-Solving Blueprints:** You've designed reliable methods for every problem type!
- **Strategic Prototypes:** You test multiple approaches to find the most efficient solution!
- **Quality Testing:** You verify your answers to ensure accuracy before submitting!
- **Continuous Improvement:** You learn from feedback and consistently enhance your skills!

Remember this inventor's principle: preparation is the foundation of innovation! Six complete practice tests represent substantial preparation. You've tested your mathematical machines repeatedly, and they work beautifully. Test day is your opportunity to demonstrate your inventions to the world. Trust your engineering!

Want to patent a particularly clever solution method? Share your mathematical inventions at reza@testinar.com. I celebrate innovative thinking!

Reza Nazari & Jay Daie

Your Math Coaches (Mistakes Help You Learn)

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



Visit testinar.com/math5

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Smart Practice. Stronger Results.