

# 3

# Alabama

# ACAP

## GRADE 4

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**5 FULL-LENGTH**  
PRACTICE TESTS



**STANDARDS-ALIGNED**  
REVIEW



**MIXED PRACTICE**  
QUESTIONS



**ANSWER KEY**  
INCLUDED

$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



# 3 Alabama ACAP Grade 4 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 4 review, Alabama ACAP strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

**Jay Daie and Reza Nazari**



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# Alabama, Start Your Nine-Round Math Rally

A steady Grade 4 path from first try to confident finish

This book gives you nine chances to practice like a thoughtful Alabama test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly. Treat every question like a clue: read it, mark what matters, solve it, and check that your answer fits.

## Your Alabama Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

**Three rounds is not about rushing. It is about building a math habit that stays strong.**

## How to Use This Book

A nine-session routine for clear, confident review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

**Good rhythm:** Test one day, review the next day, then take the next test when your corrections feel clear.



# What Is Inside the Nine Tests?

Mixed Grade 3 practice with standards support

| Part             | What You Practice   |
|------------------|---|
| Three full tests | 30 mixed Grade 4 questions in each round  |
| Question styles  | Multiple choice, select-all, and open-ended work spaces                                   |
| Math topics      | Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes |
| Answer support   | Compact answer keys plus explanations for every item                                      |
| Standards help   | A standards reference and standard-code boxes in explanations                             |

**Why mixed practice helps:** Real tests do not announce the next skill. These three rounds help students recognize the math move they need, even when the topic changes from question to question.



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For more practice  
& answers

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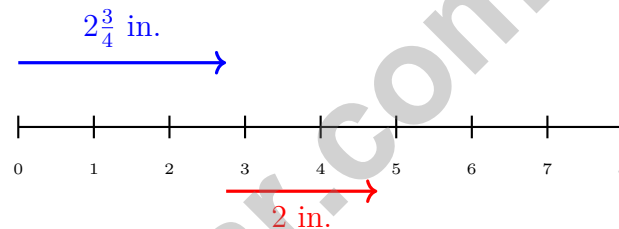
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1) A student says  $0.5 > 0.45$  because 5 is greater than 45. Is this reasoning correct?

- A. Yes, the student is correct       C. No,  $0.45 > 0.5$   
 B. No, you must compare place values, not digits       D. The comparison cannot be made

2) Which number rounds to 70,000 when rounded to the nearest ten thousand?

- A. 64,999       C. 75,001  
 B. 74,500       D. 75,499



3)

A board has two sections. The blue section is  $2\frac{3}{4}$  inches and the red section is 2 inches. What is the total length?

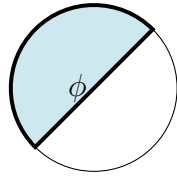
- A.  $4\frac{1}{4}$  inches       C.  $4\frac{3}{4}$  inches  
 B.  $4\frac{2}{4}$  inches       D. 5 inches

4) Elena has 2 ropes. Each rope is  $\frac{3}{4}$  meter long. How much rope does she have altogether?

- A.  $\frac{6}{4}$  meters or  $1\frac{2}{4}$  meters       C.  $\frac{3}{8}$  meter  
 B.  $\frac{2}{4}$  meter       D.  $\frac{3}{4}$  meter



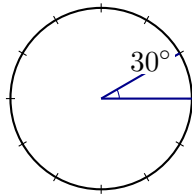
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5)

The shaded region in the circle shows angle  $\phi$ . Which fraction describes this angle?

- A.  $\frac{1}{2}$  of the circle       C.  $\frac{1}{4}$  of the circle  
 B.  $\frac{1}{3}$  of the circle       D.  $\frac{2}{3}$  of the circle



6)

Ava's angle measures  $30^\circ$ . How many one-degree angles does it contain?

- A. 15 one-degree angles       C. 60 one-degree angles  
 B. 30 one-degree angles       D. 3 one-degree angles
- 7) An angle measures  $143^\circ$ . It is divided into two parts by a ray. One part measures  $68^\circ$ . What is the measure of the other part?



8) The pattern is: 2, 4, 8, 16, 32, ... What is the 7th term?

- A. 64  C. 256  
 B. 512  D. 128

9) Ava has  $\frac{2}{10}$  of a pizza. What fraction with denominator 100 is this equal to?

- A.  $\frac{2}{100}$   C.  $\frac{20}{100}$   
 B.  $\frac{12}{100}$   D.  $\frac{22}{100}$

10) Two friends shared a chocolate bar. One friend ate  $\frac{5}{10}$  and the other ate  $\frac{3}{10}$ . What fraction of the chocolate bar was left uneaten?

- A.  $\frac{2}{10}$   C.  $\frac{1}{10}$   
 B.  $\frac{8}{20}$   D.  $\frac{8}{10}$

11) A garden path is  $\frac{10}{12}$  meter long. After rain,  $\frac{4}{12}$  meter washed away. How much remains?

- A.  $\frac{14}{12}$  meters  C.  $\frac{6}{24}$  meter  
 B.  $\frac{6}{12}$  meter  D.  $\frac{4}{12}$  meter

12) Look at this addition with regrouping: 
$$\begin{array}{r} 4,567 \\ +2,345 \\ \hline \end{array}$$
 What is the sum?

- A. 6,912  C. 7,012  
 B. 6,812  D. 6,922

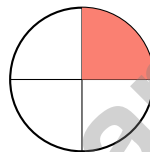
13) A figure that has more than 4 lines of symmetry must be which of the following?

- A. A triangle  C. A regular polygon with 5 or more sides or a circle  
 B. A quadrilateral  D. A square

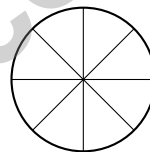


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- 1) Diego walked  $2\frac{3}{10}$  miles on Monday and  $1\frac{4}{10}$  miles on Tuesday. How many miles did he walk in total?
- A.  $3\frac{5}{10}$  miles                       C.  $3\frac{7}{10}$  miles  
 B.  $3\frac{6}{10}$  miles                       D.  $4\frac{1}{10}$  miles
- 2) Which pattern shows all multiples of 6?
- A. 2, 4, 6, 8, 10                       C. 3, 6, 9, 12, 15  
 B. 6, 12, 18, 24, 30                       D. 5, 10, 15, 20, 25
- 3) Two circles are the same size. The first circle shows  $\frac{1}{4}$  shaded. How much of the second circle needs to be shaded to show an equivalent fraction with 8 equal parts?



Circle 1



Circle 2

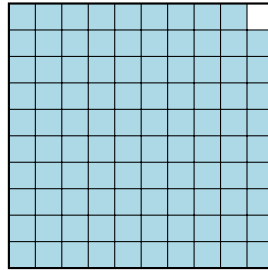
- A. 1 part                                       C. 3 parts  
 B. 4 parts                                       D. 2 parts
- 4) The perimeter of a rectangle is 38 centimeters. The length is 11 centimeters. What is the width?



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1) What decimal is shown by the shaded part of the hundredths grid?

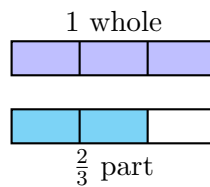


99 out of 100 shaded

- A. 0.01                       C. 0.99  
 B. 0.10                       D. 0.90
- 2) Which part of an angle is the point where the two rays meet?
- A. The side                       C. The arc  
 B. The vertex                       D. The exterior
- 3) Sophia reads for 15 minutes in the morning and 20 minutes in the evening. How many minutes does she read in total each day?
- A. 5 minutes                       C. 35 minutes  
 B. 25 minutes                       D. 300 minutes



4) Look at the two fraction bars:



This represents which mixed number?

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

5) What is  $6 \times 187$ ?

- A. 1020
  C. 1122  
 B. 1200
  D. 1320

6)



Ava measures an angle and gets a reading very close to 90 degrees. Is this angle acute, right, or obtuse?

- A. Right
  C. Obtuse  
 B. Acute
  D. Straight

7) Which statement is true?

- A.  $\frac{40}{100} < \frac{4}{10}$ 
 C.  $\frac{40}{100} > \frac{4}{10}$   
 B.  $\frac{40}{100} = \frac{4}{10}$ 
 D.  $\frac{40}{100} = \frac{40}{10}$



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## Practice Test Answer Keys

**How to use this section with a Grade 4 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

- Choice B is correct.** (4.17) The answer is true, but the reasoning is wrong! Don't compare the digits "5" and "45." Instead, compare place values: Rewrite as  $0.5 = 0.50$ , so 5 tenths  $>$  4 tenths. Therefore  $0.5 > 0.45$ .
- Choice B is correct.** (4.9) Rounding to the nearest ten thousand means we look at the thousands digit of each option. Option B (74,500): thousands digit is  $4 < 5$ , rounds DOWN to **70,000**. ✓ Option A (64,999): thousands digit is  $4 < 5$ , rounds DOWN to 60,000. Option C (75,001): thousands digit is  $5 \geq 5$ , rounds UP to 80,000. Option D (75,499): thousands digit is  $5 \geq 5$ , rounds UP to 80,000.
- Choice C is correct.** (4.15) Add the wholes:  $2 + 2 = 4$ . Add the fractions:  $\frac{3}{4} + 0 = \frac{3}{4}$ . The total length is  $4\frac{3}{4}$  inches.
- Choice A is correct.** (4.16) Elena has 2 ropes, each  $\frac{3}{4}$  meter long. Multiply:  $2 \times \frac{3}{4} = \frac{2 \times 3}{4} = \frac{6}{4} = 1\frac{2}{4}$  meters. The answer is  $1\frac{2}{4}$  or  $1\frac{1}{2}$  meters.
- Choice A is correct.** (4.24) The shaded region spans from  $45^\circ$  to  $225^\circ$ , which is  $180^\circ$  or  $\frac{1}{2}$  of the full circle.
- Choice B is correct.** (4.24) When we say an angle measures  $30^\circ$ , that means it is made of **30** one-degree angles.
- The correct answer is 75.** (4.15) The ray splits the angle into two parts. Subtract to find the missing part:  $143^\circ - 68^\circ = 75^\circ$ .
- Choice D is correct.** (4.4) Double each term: 2, 4, 8, 16, 32, 64, **128**. The 7th term is **128**.
- Choice C is correct.** (4.17) To convert  $\frac{2}{10}$  to a fraction with denominator 100, multiply both numerator and denominator by 10:  $\frac{2}{10} = \frac{2 \times 10}{10 \times 10} = \frac{20}{100}$ .
- Choice A is correct.** (4.15) The chocolate bar is shared, but some is left over. Step 1: Add what was eaten:  $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$ . Step 2: Subtract from the whole:  $\frac{10}{10} - \frac{8}{10} = \frac{2}{10}$  left uneaten.
- Choice B is correct.** (4.15) The path started at  $\frac{10}{12}$  meter. Rain washed away  $\frac{4}{12}$  meter. What's left:  $10 - 4 = 6$  twelfths, or  $\frac{6}{12}$  meter.
- Choice A is correct.** (4.10) Add using the standard algorithm: ones  $7 + 5 = 12$  (write 2, carry 1), tens  $6 + 4 + 1 = 11$  (write 1, carry 1), hundreds  $5 + 3 + 1 = 9$ , thousands  $4 + 2 = 6$ . The sum is **6,912**.
- Choice C is correct.** (4.29) Squares have 4 lines and regular hexagons have 6. Pentagons with 5 sides have 5 symmetry lines, and octagons with 8 sides have 8 lines. Circles win with infinitely many! The answer is A regular polygon with 5 or more sides or a circle.
- The correct answer is 1.** (4.16) Six sixths:  $6 \times \frac{1}{6} = \frac{6}{6} = 1$ .
- Choice D is correct.** (4.6) Moving the digit 4 from tens (40) to thousands (4,000) increases its value by the ratio  $4,000 \div 40 = 100$  times. ✓
- The correct answer is 4.** (4.28) Tick marks on all four sides of the figure show that all four sides have equal length. The answer is 4.
- Choice D is correct.** (4.2) Look at the picture: Raj's group has 2 rows of 6 books—that's 2 times Mira's amount. Multiply:  $2 \times 6 = 12$  books.
- The correct answer is B, C.** (4.21) Check each option. A: 50 cm = 0.5 m, wrong. B: 500 cm = 5 m, correct! C: 5,000 mm = 5 m, correct! D: 5,000 cm = 50 m, wrong. E: 5 m = 0.005 km, not 0.05 km. The correct answers are **B and C**.
- Choice D is correct.** (4.15) The lowest value on the line plot is 0 inch and the highest is 1 inch. The range is  $1 - 0 = 1$  inch.
- Choice C is correct.** (4.16) One whole ( $\frac{4}{4}$ ) equals 4 copies of  $\frac{1}{4}$ . So there are **4** fourths in one whole.
- Choice D is correct.** (4.7) "Seventy-eight thousand" = 78,000, so the full number is 78,412. The digit 8 is in the thousands place ✓
- Choice D is correct.** (4.13) Both bars show the same shaded length. The denominator goes from 3 to 6 (multiply by 2), so the numerator also goes from 1 to 2:  $\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$ .
- Choice C is correct.** (4.23) The table's perimeter is  $P = 2(5) + 2(3) = 10 + 6 = 16$  ft.
- Choice D is correct.** (4.11) Distribute:  $32 \times (20 + 4) = 640 + 128 = 768$  bags.
- Choice C is correct.** (4.27) A ray is like a beam of light from a flashlight — it starts at one point and shines forever in one direction only. A line keeps going both ways, a segment stops at both ends, and a point is just one spot with no size at all.



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## Hi, Hero!

◇ Once there was a Grade 4 student who took 3 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

### Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

**Storyteller tip:** on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Storyteller

# PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

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

## PERFECT FOR:

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

★ 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.



### Test Confidence

Become familiar with test-style questions and formats.



### Prepare for Success

Build the confidence needed to do your best on test day.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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