

# 7

# Alabama

# ACAP

## Grade 3 MATH

## PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



7 Full-Length  
Practice Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



Build Confidence.  
Achieve Success.

PREPARE  
PRACTICE  
SUCCEED



$4 \times 6 = 24$

$2 + 3 = 5$

# 7 Alabama ACAP Grade 3 Math Practice Tests

*Standards-Aligned Practice with Review, Answer Keys, and Explanations*



Seven complete 30-question practice trails for Grade 3 math:  
operations, fractions, measurement, data, area, shapes, answer keys,  
and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

## To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Alabama ACAP. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Alabama has river bends, pine forests, Gulf Coast breezes, rocket work, and busy classrooms where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and check that the answer fits.

### Scout

Find what the problem is asking before you calculate.

### Solve

Pick an equation, model, array, graph, or number line.

### Prove

Check the answer and explain the thinking clearly.

**Seven-trail promise:** I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

# How to Use This Book

A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

**Best review habit:** A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



## What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Alabama Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Alabama ACAP path.



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& answers

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1) Which of these equals  $8 \times 3$ ?

A.  $8 + 3 = 11$

C.  $8 + 8 = 16$

B.  $3 \times 3 = 9$

D.  $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$

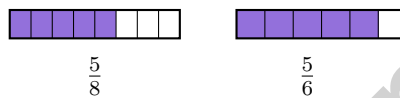
2) Mr. Kim buys 6 cases of juice with 9 bottles in each case. He donates 15 bottles to the school. How many bottles does he have left?

A. 24

C. 48

B. 39

D. 54



3)

Which is true?

A.  $\frac{5}{8} < \frac{5}{6}$

C.  $\frac{5}{8} = \frac{5}{6}$

B.  $\frac{5}{8} > \frac{5}{6}$

D.  $\frac{5}{6} < \frac{5}{8}$

4) If a number line from 0 to 3 is divided into thirds, how many thirds tall is the entire line?

5) Look at these two rectangles. Rectangle A is 2 units by 9 units. Rectangle B is 3 units by 6 units. What is the difference in their areas?

A. 0 square units

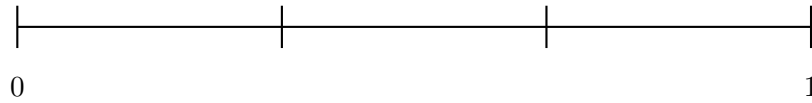
C. 4 square units

B. 2 square units

D. 6 square units



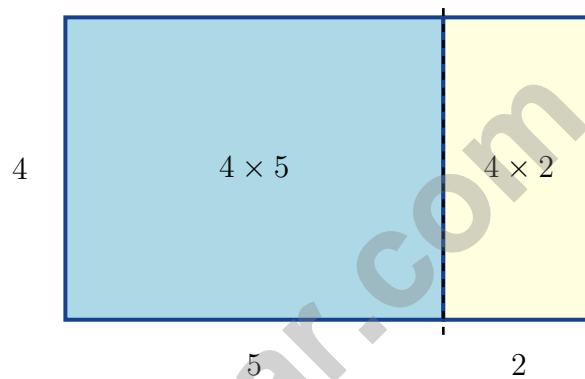
10) On a number line from 0 to 1 with 3 equal parts, which fraction is NOT a tick mark?



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

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

11) Sam draws an area model to find  $4 \times 7 = 4 \times (5 + 2)$ .

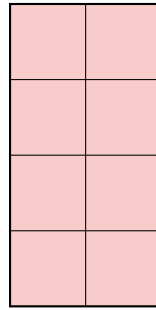


What is  $4 \times 5 + 4 \times 2$ ?

- A. 20  
 B. 22

- C. 30  
 D. 28





1)

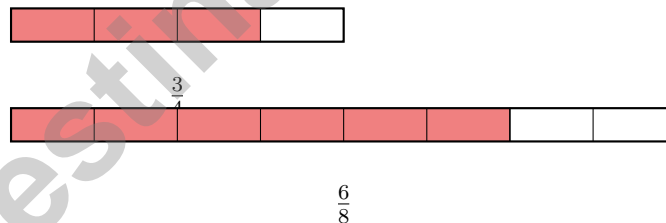
Count the unit squares in the grid shown. What is the area?

- A. 4 square units
- B. 6 square units
- C. 8 square units
- D. 10 square units

2) What is  $4 \times 7$ ?

- A. 28
- B. 32
- C. 35
- D. 39

3) Look at the bars. Is  $\frac{3}{4}$  equivalent to  $\frac{6}{8}$ ?



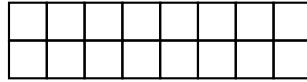
- A. Yes, they are equivalent
- B. No, they are not equivalent
- C. The second bar is larger
- D. The first bar is larger



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- 1) Mia covers a 2 by 8 rectangle with unit square tiles. Here is the grid:



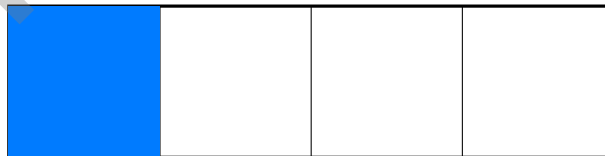
Count the unit squares. How many are there?

- A. 10 unit squares (the perimeter)       C. 8 unit squares  
 B. 16 unit squares       D. 20 unit squares
- 2) Which is greater:  $\frac{1}{2}$  or  $\frac{1}{4}$ ?

- 3) Two students round differently. Maria says 127 rounds to 130 (nearest 10). Josh says 127 rounds to 100 (nearest 100). Are both students correct? Explain.

- A. Both are wrong; the answer is 125       C. Both are correct because they are  
 B. Maria is wrong; Josh is right      rounding to different place values  
 D. Josh is wrong; Maria is right

- 4) Look at the picture. The rectangle is divided into equal parts, and some parts are shaded.



Which fraction is shaded?

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



5) A square rug has side length 5 meters. What is its area?

A. 10 sq m

C. 25 sq m

B. 20 sq m

D. 30 sq m

6) Find  $6 \times 4$ .

7) A square has an area of 25 square inches. How long is each side?

A. 5 inches

C. 6 inches

B. 4 inches

D. 12 inches

8) Which repeated addition equals  $9 + 9 + 9 + 9$ ?

A.  $3 \times 9 = 27$

C.  $5 \times 9 = 45$

B.  $9 \times 9 = 81$

D.  $4 \times 9 = 36$

9) Sam draws a number line from 0 to 2 split into 8 equal parts. He marks  $\frac{4}{8}$  of the distance from 0 to 2. At what whole number is his mark?

A. At 0

C. At 2

B. Between 1 and 2

D. At 1

10) Which is a correct way to find  $7 \times 6$  using a multiplication fact you know?

A. Use  $6 \times 6 = 36$  and add one more 6

C. Use  $8 \times 6 = 48$  and subtract one 8

B. Use  $5 \times 6 = 30$  and add one more 6

D. Add  $7 + 6$



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## Practice Test Answer Keys

**How to use this section with a Grade 3 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 D is correct.** (3.2)  $8 \times 3$  means 8 groups of 3, so  $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$ . Both equal 24.
- 2) **Choice B is correct.** (3.8) Step 1: Find total bottles:  $6 \times 9 = 54$  bottles. Step 2: Subtract:  $54 - 15 = 39$  bottles left. (Choice D is step 1 only; choice C is incorrect.)
- 3) **Choice A is correct.** (3.15) Same numerator: eighths are smaller pieces than sixths. Five eighths is less than five sixths.
- 4) **The correct answer is 9.** (3.14) From 0 to 3, there are 3 whole units. Each unit has 3 thirds, so  $3 \times 3 = 9$  thirds total, or  $\frac{9}{3} = 3$ .
- 5) **Choice A is correct.** (3.23) Rectangle A:  $2 \times 9 = 18$  square units. Rectangle B:  $3 \times 6 = 18$  square units. They are equal, so the difference is 0.
- 6) **Choice B is correct.** (3.19) Subtract:  $2000 - 250 = 1750$  g.
- 7) **Choice A is correct.** (3.12) Six equal parts means the first tick is at unit fraction  $\frac{1}{6}$ .
- 8) **Choice D is correct.** (3.10) The tens digit is 5. Since  $5 \geq 5$ , round up: 158 rounds to 200.
- 9) **The correct answer is 4 units.** (3.22) Area = length  $\times$  width. Since  $24 = 6 \times w$ , the missing width is 4 units.
- 10) **Choice D is correct.** (3.14) The line is divided into thirds, so  $\frac{1}{4}$  is not a tick mark on this particular number line.
- 11) **Choice D is correct.** (3.5)  $4 \times 5 = 20$  and  $4 \times 2 = 8$ , so  $20 + 8 = 28$ . Also  $4 \times 7 = 28$ .
- 12) **Choice B is correct.** (3.16) Red: 4 stars  $\times 2 = 8$ . Blue: 2 stars  $\times 2 = 4$ .
- 13) **The correct answer is 2.** (3.2)  $\frac{1}{2} + \frac{1}{2} = 1$ , so 2 halves make one whole.
- 14) **Choice B is correct.** (3.20) At  $5\frac{1}{2}$  there are 4 X's. At  $5\frac{1}{4}$  there are 2, at  $5\frac{3}{4}$  there is 1, and at 6 there is 1.
- 15) **Choice D is correct.** (3.7)  $56 \div 7 = 8$  because  $8 \times 7 = 56$ . Seven groups of 8 equals 56.
- 16) **Choice C is correct.** (3.12) Multiply  $6 \times 5 = 30$ , then add one zero:  $6 \times 50 = 300$ .
- 17) **Choices B and E are correct.** (3.9) Statement B is true because any even number contains a factor of 2, making the product even. Example:  $4 \times 3 = 12$  (even). Statement E is true because the row for 5 shows 5, 10, 15, 20, ..., increasing by 5 each time ( $5 \times 1$ ,  $5 \times 2$ ,  $5 \times 3$ , etc.). Statement A is false (odd  $\times$  odd is odd). Statement C is false (3, 6, 9, 12, ... has odd and even). Statement D is false ( $5 \times 6 = 30$  is even).
- 18) **Choice A is correct.** (3.15) Sam ate  $\frac{1}{3}$ , which is equivalent to  $\frac{2}{6}$ .
- 19) **Choice A is correct.** (3.6) From the fact-family triangle with factors 4 and 9 and product 36, we write two divisions:  $36 \div 4 = 9$  and  $36 \div 9 = 4$ . The factors become quotients.
- 20) **Choice A is correct.** (3.3) Divide:  $36 \div 4 = 9$  books per shelf.
- 21) **Choice C is correct.** (3.23) Vertical:  $7 \times 6 = 42$  sq units. Horizontal:  $8 \times 3 = 24$  sq units. Total:  $42 + 24 = 66$  sq units.
- 22) **Choice A is correct.** (3.11) Add:  $456 + 244 = 700$ . Ones:  $6 + 4 = 10$  (write 0, carry 1). Tens:  $5 + 4 + 1 = 10$  (write 0, carry 1). Hundreds:  $4 + 2 + 1 = 7$ .
- 23) **Choice A is correct.** (3.15)  $\frac{1}{2} = \frac{4}{8}$  because  $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$ . Both Ava and Ben ate the same amount.
- 24) **Choice D is correct.** (3.2)  $12 \div 4 = 3$ . The picture shows 4 equal groups, each with 3 items.
- 25) **Choice A is correct.** (3.13) One shaded part out of three equal parts is  $\frac{1}{3}$ .
- 26) **Choice C is correct.** (3.26) This is a rectangle. All rectangles have 4 right angles, one at each corner.
- 27) **Choice B is correct.** (3.15) When numerator = denominator, the fraction equals 1 whole.  $\frac{3}{3} = 1$ .
- 28) **Choice D is correct.** (3.4) Divide:  $21 \div 3 = 7$  columns. Check:  $3 \times 7 = 21$ .
- 29) **Choice A is correct.** (3.18) The minute hand points to 11 minutes (just past the 2), and the hour hand is just past 2. The time is 2 : 11.
- 30) **Choice C is correct.** (3.20)  $11 \times 3 = 33$  unit square patches.

### Practice Test 2 Answers and Explanations



From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 7 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

**What Your Math Family Sees**

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

**Family tip:** on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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 Family

# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



## EACH PRACTICE TEST INCLUDES:



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Aligned  
Questions



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Question  
Types



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