

# 4

# Alabama ACAP

## Grade 3

# MATH

## PRACTICE TESTS

### Standards-Aligned Practice



#### STANDARDS-ALIGNED

Practice to build skills and boost confidence



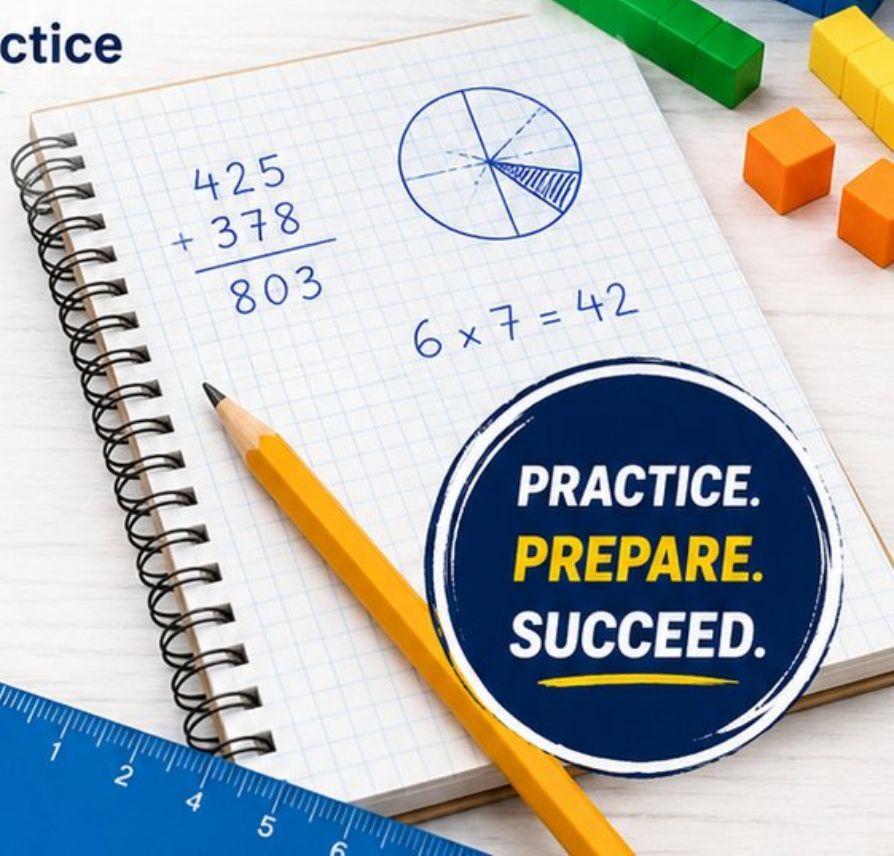
#### 4 FULL-LENGTH TESTS

Realistic questions to prepare for test day

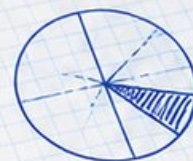


#### ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



$$\begin{array}{r} 425 \\ + 378 \\ \hline 803 \end{array}$$



$$6 \times 7 = 42$$

**PRACTICE.**  
**PREPARE.**  
**SUCCEED.**

# 4 Alabama ACAP Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Four focused 30-question missions for Grade 3 math: number facts, 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 Alabama Math Launch

Four missions, careful work, and a stronger Grade 3 thinker



Read the mission. Show the work. Check the answer. Launch again.

## To the Grade 3 Mission Leader

This book is a four-mission practice launch for the Alabama ACAP. Each test gives you a fresh chance to multiply, divide, read graphs, compare fractions, measure, find area, and explain math in a way someone else can follow.

Alabama has rockets in Huntsville, busy ports on Mobile Bay, and strong classrooms in every county. Your job is simpler than a rocket launch, but it uses the same habit: check the details before you move forward.

### Notice

Find the numbers, units, and question before choosing a path.

### Model

Draw an array, number line, table, or quick equation.

### Verify

Ask whether your answer fits the story and the unit.

**Launch promise:** I will slow down at the important moments, show the work I can, and use every miss as a clue for the next mission.

# How to Use This Book

A four-mission routine for steady Grade 3 growth

## 1. Warm Up the System

Read the review pages first. Remind your brain how equal groups, fractions, clocks, graphs, and area models work.

## 2. Fly One Mission

Take one complete 30-question test. Keep your work neat enough that you can check it later.

## 3. Review the Flight

Use the answer key, then pause. A wrong answer is useful when you can name what happened.

## 4. Repair and Relaunch

Rework a few missed questions before starting the next test. The repair step is where the score begins to move.

### A Four-Session Plan

<b>Session 1</b>	Take Test 1 and mark the topics that need attention.
<b>Session 2</b>	Take Test 2 and focus on showing every step clearly.
<b>Session 3</b>	Take Test 3 and watch for units, labels, and two-step problems.
<b>Session 4</b>	Take Test 4 and finish with calm, careful checking.

**Best mission habit:** After checking answers, write one sentence: “Next time I will pay attention to \_\_\_\_\_.”



# Test Overview

## What each Grade 3 math mission asks you to do

Each practice test has 30 questions. Across four tests, you will practice the kind of Grade 3 math thinking used on the Alabama ACAP: reading carefully, choosing a strategy, doing accurate computation, and explaining enough work to make your answer clear.

### Multiple Choice

Look for the best answer. Estimate first when you can, cross out choices that do not fit, and reread the question before you choose.

### Open Response

Write the answer and show the reason. A good Grade 3 response may use a drawing, equation, table, number line, or a few clear words.

### Math Ideas Inside the Four Tests

- multiplication, division, arrays, missing factors, and two-step word problems
- place value, rounding, addition, subtraction, and multiplying by tens
- unit fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shape categories

**What strong ACAP work looks like:** the answer matches the question, the units make sense, and the work is clear enough to check.



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# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	24
★ Practice Test 3	_____	36
★ Practice Test 4	_____	47
Practice Test Answer Keys	_____	58
Practice Test Answers and Explanations	_____	61

1) Mia folds a paper into 3 equal parts. What unit fraction is one part?

A.  $\frac{1}{4}$

B.  $\frac{1}{2}$

C.  $\frac{1}{3}$

D.  $\frac{1}{6}$

2) A teacher has 40 pencils. She gives them equally to 8 students. How many pencils does each student get?

3) Which is NOT equivalent to  $\frac{2}{4}$ ?

A.  $\frac{4}{8}$

B.  $\frac{1}{2}$

C.  $\frac{3}{6}$

D.  $\frac{3}{4}$

4) Which statement is true about the products of even and odd numbers?

A. Even  $\times$  odd is always odd

B. Even  $\times$  even is always odd

C. Even  $\times$  odd is always even

D. Odd  $\times$  odd is always even

5) Complete:  $\square \times 8 = 56$ . Then write the related division fact.

A.  $\square = 7$  and  $56 \div 8 = 7$

B.  $\square = 8$  and  $56 \div 7 = 8$

C.  $\square = 6$  and  $56 \div 6 = 8$

D.  $\square = 9$  and  $56 \div 9 = 8$

6) Noah buys three items at the store. Tomatoes weigh 1 kg, bread weighs 600 g, and cheese weighs 400 g. What is the total mass in grams?

A. 1000 g

B. 1600 g

C. 2000 g

D. 2600 g



7) Which equation is false?

A.  $7 \times (2 + 8) = 7 \times 2 + 7 \times 8$

C.  $5 \times (6 + 1) = 5 \times 6 + 5 \times 1$

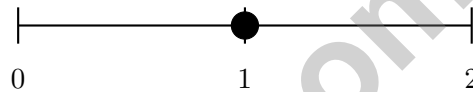
B.  $9 \times (3 + 4) = 9 \times 3 + 9 \times 4$

D.  $6 \times (5 + 2) = 6 \times 5 - 6 \times 2$

8) A picture graph shows coins saved. Each symbol is 5 coins. Ty saved 6 symbols, Kim saved 8 symbols. How many fewer coins does Ty have than Kim?

 A. 2 coins C. 15 coins B. 10 coins D. 30 coins

9) A number line shows 0 to 2 divided into 2 equal parts. What fraction is at the middle tick mark?



A.  $\frac{1}{2}$

C.  $\frac{3}{2}$

B. 1

D.  $\frac{1}{4}$

10) Which property of multiplication helps you solve  $8 \times 3$  by thinking about  $8 \times 2 + 8 \times 1$ ?

 A. Commutative C. Identity B. Associative D. Distributive

11) A soccer practice starts at 4 : 05 PM and ends at 5 : 28 PM. How long is practice?

 A. 1 hour 17 minutes C. 1 hour 23 minutes B. 1 hour 20 minutes D. 1 hour 30 minutes

12) Noah loses 3 of 6 marbles. What fraction did he lose in simplest form?



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13) Which two fractions both equal 1 whole?

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

14) A rectangular yard is 10 meters long and 2 meters wide. What is its area?

- A. 12 sq m  
 B. 20 sq m  
 C. 15 sq m  
 D. 25 sq m

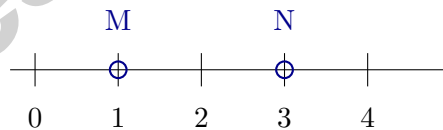
15) Noah counts unit squares to measure the area of a shape. He gets 9 unit squares. What is the area of the shape?

- A. 3 square units  
 B. 6 square units  
 C. 9 square units  
 D. 18 square units

16) A T-shaped figure is divided by dashed lines into three rectangles. The given areas are 10 sq units, 6 sq units, and 6 sq units. What is the total area?

- A. 10 sq units  
 B. 22 sq units  
 C. 16 sq units  
 D. 360 sq units

17)



Two points  $M$  and  $N$  are marked on a number line from 0 to 4. Point  $M$  is at 1 and point  $N$  is at 3. What fraction of the whole distance from 0 to 4 is point  $N$ ?

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



1) A cake is divided into 6 equal pieces. If you eat  $\frac{1}{6}$ ,  $\frac{1}{6}$ , and  $\frac{1}{6}$ , how much of the cake do you eat in total?

- A.  $\frac{3}{6}$   
 B.  $\frac{1}{6}$

- C.  $\frac{1}{18}$   
 D.  $\frac{3}{1}$

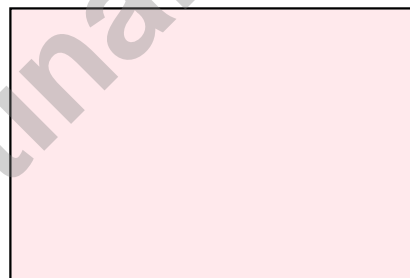
2) A number line from 0 to 1 is divided so there are exactly 4 equal parts. If you mark the first partition, what fraction do you mark?

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

- C.  $\frac{1}{5}$   
 D.  $\frac{4}{4}$

3) Mia colored  $\frac{2}{3}$  of a circle. Write an equivalent fraction that uses 6 as the denominator.

4 inches



6 inches

4)

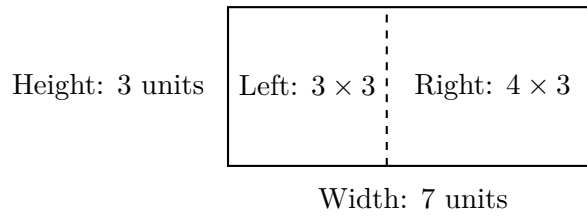
A rectangular tile is 6 inches long and 4 inches wide. Find the area.

- A. 24 sq in  
 B. 20 sq in

- C. 10 sq in  
 D. 12 sq in



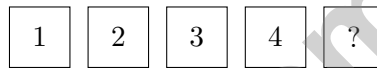
5) Look at this tiling diagram:



Which sum of the two smaller areas gives the total area?

- A.  $(3 \times 3) + (4 \times 3) = 9 + 12 = 21$        C.  $7 + 3 = 10$   
 B.  $3 \times (3 + 4) = 21$                                D.  $3 + 4 + 7 = 14$

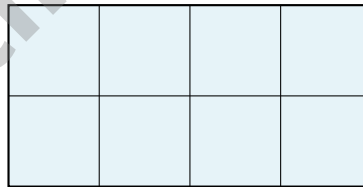
6)



Which number should replace the ?

- A. 5     C. 7  
 B. 6     D. 8

7) How many unit squares cover this rectangle with no gaps or overlaps?



- A. 4 unit squares                               C. 8 unit squares  
 B. 6 unit squares                               D. 10 unit squares



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1) Ava cut a pie into 3 equal pieces and ate 2 pieces. Lily cut her pie into 6 equal pieces and ate 4 pieces. Did they eat the same amount?

- A. Yes, they ate the same amount       C. No, Lily ate more  
 B. No, Ava ate more       D. Cannot be determined

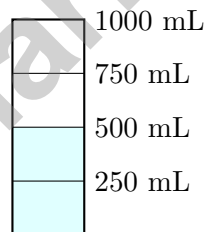
2) A rectangle is 8 units long and 12 units wide. If split into two rectangles with the same length of 8, and widths of 7 and 5, which is correct?

- A.  $8 \times (7 + 5) = 8 \times 12 = 96$  square units       D.  $(8 \times 7) + (8 \times 5) = 56 + 40 = 96$  square units  
 B.  $8 + 12 = 20$  units  
 C.  $7 + 5 = 13$  units

3) What is  $9 \times 30$ ?

- A. 27 (forgot to add zero)       C. 270  
 B. 2700 (added two zeros)       D. 39 (added instead of multiplying)

4)



Lily measures water in a measuring cup. The cup shows 500 mL of water. Which amount equals 500 mL?

- A. 250 mL       C. 500 mL  
 B. 750 mL       D. 1000 mL



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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 C is correct.** (3.2) A paper folded into 3 equal parts has each part as  $\frac{1}{3}$  (one-third).
- 2) **The correct answer is 5.** (3.4) Divide:  $40 \div 8 = 5$  pencils per student.
- 3) **Choice D is correct.** (3.15)  $\frac{2}{4} = \frac{1}{2}$ . Choices A, B, and C are all equivalent. Only  $\frac{3}{4}$  is different.
- 4) **Choice C is correct.** (3.9) An even number times any other whole number is always even, because the result is a multiple of 2.
- 5) **Choice A is correct.** (3.6)  $7 \times 8 = 56$ , so the missing factor is 7. The related division is  $56 \div 8 = 7$ . Multiplication and division work together.
- 6) **Choice C is correct.** (3.19) 1 kg = 1000 g. Add:  $1000 + 600 + 400 = 2000$  g.
- 7) **Choice D is correct.** (3.20) This equation uses subtraction instead of addition. The correct form is  $6 \times (5 + 2) = 6 \times 5 + 6 \times 2$ .
- 8) **Choice B is correct.** (3.16) Ty:  $6 \times 5 = 30$ . Kim:  $8 \times 5 = 40$ . Fewer:  $40 - 30 = 10$ .
- 9) **Choice B is correct.** (3.14) On a number line from 0 to 2, the middle tick mark is at 1, which is halfway between 0 and 2.
- 10) **Choice D is correct.** (3.5) The distributive property lets you break apart a factor:  $8 \times 3 = 8 \times (2 + 1) = 8 \times 2 + 8 \times 1 = 16 + 8 = 24$ .
- 11) **Choice C is correct.** (3.18) From 4 : 05 to 5 : 05 is 1 hour. From 5 : 05 to 5 : 28 is 23 minutes. Total: 1 hour 23 minutes.
- 12) **The correct answer is  $\frac{1}{2}$ .** (3.15)  $\frac{3}{6} = \frac{1}{2}$ .
- 13) **Choices A and C are correct.** (3.15) When numerator = denominator, the fraction always equals 1 whole. (B)  $\frac{3}{1} = 3$ , not 1. (D) and (E) are less than 1.
- 14) **Choice B is correct.** (3.22) Area =  $10 \times 2 = 20$  square meters.
- 15) **Choice C is correct.** (3.21) If the shape is covered by 9 unit squares, the total area is 9 square units.
- 16) **Choice B is correct.** (3.23) Add all three parts:  $10 + 6 + 6 = 22$  square units.
- 17) **Choice C is correct.** (3.14) Point N is at 3 on a number line from 0 to 4. The fraction is  $\frac{3}{4}$ .
- 18) **Choice B is correct.** (3.20) Playground:  $6 \times 5 = 30$  tiles. Real-world context.
- 19) **Choice A is correct.** (3.8) Step 1: Total candy:  $4 \times 8 = 32$  pieces. Step 2: Subtract eaten:  $32 - 12 = 20$  pieces left. (Choice C is step 1 only.)
- 20) **Choice D is correct.** (3.20) At  $5\frac{1}{2}$ , there are zero X's. All other values have at least one X.
- 21) **Choice B is correct.** (3.15)  $\frac{3}{8} < \frac{3}{4}$  because eighths are smaller parts than fourths. Also,  $\frac{2}{2} = 1$ , so the order is  $\frac{3}{8}, \frac{3}{4}, \frac{2}{2}$ .
- 22) **Choice B is correct.** (3.12)  $4 \times 70 = 4 \times 7 \times 10 = 28 \times 10 = 280$ . Marcus added two zeros instead of one.
- 23) **Choice C is correct.** (3.10) Numbers from 350 to 449 round to 400. The number 449 has tens  $4 < 5$ , so it rounds down to 400.
- 24) **Choice C is correct.** (3.20) Count the rows: 4 rows with 5 unit squares in each row. Total:  $5 + 5 + 5 + 5 = 20$  unit squares. Area is 20 square units.
- 25) **Choice D is correct.** (3.2) 6 boxes with 4 stars in each box means 6 groups of 4. So  $6 \times 4 = 24$  stars.
- 26) **Choice C is correct.** (3.12) Eighths are small pieces, so  $\frac{1}{8}$  is close to 0 compared to halves or thirds.
- 27) **Choice D is correct.** (3.2) If  $18 \div ? = 3$ , then  $? = 6$  because  $6 \times 3 = 18$ . Check:  $18 \div 6 = 3$  is correct.
- 28) **Choice B is correct.** (3.26) A triangle has 3 sides. A quadrilateral has 4 sides, so a parallelogram, rhombus, and square are all quadrilaterals, but a triangle is not.
- 29) **Choice B is correct.** (3.23) Area must be measured in square units because it describes 2D space. Square feet, square inches, square meters, and square centimeters are all correct area units.
- 30) **The correct answer is 80 square feet.** (3.20) Area = length  $\times$  width, so  $10 \times 8 = 80$  square feet.



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**A Note From Your Math Friend**

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**Hi, Math Star!**

◇ Wow! You finished 4 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 4 tests, you learned that trying is the most important thing. ★

**Look What You Did!**

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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 Friend

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# Build Skills. Achieve More.

This book gives **Grade 3** students the focused practice they need to master math concepts with confidence.

## What's Inside?



### Standards-Aligned Practice

Questions designed to match Grade 3 math standards.



### Variety of Question Types

Build skills with multiple formats and challenges.



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### Step-by-Step Progress

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- ✓ Ratio & Proportion
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- ✓ Graphing & Data Analysis
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