

# 8

# Arkansas

# ATLAS

## GRADE 3

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



8 Full-Length  
Practice Tests



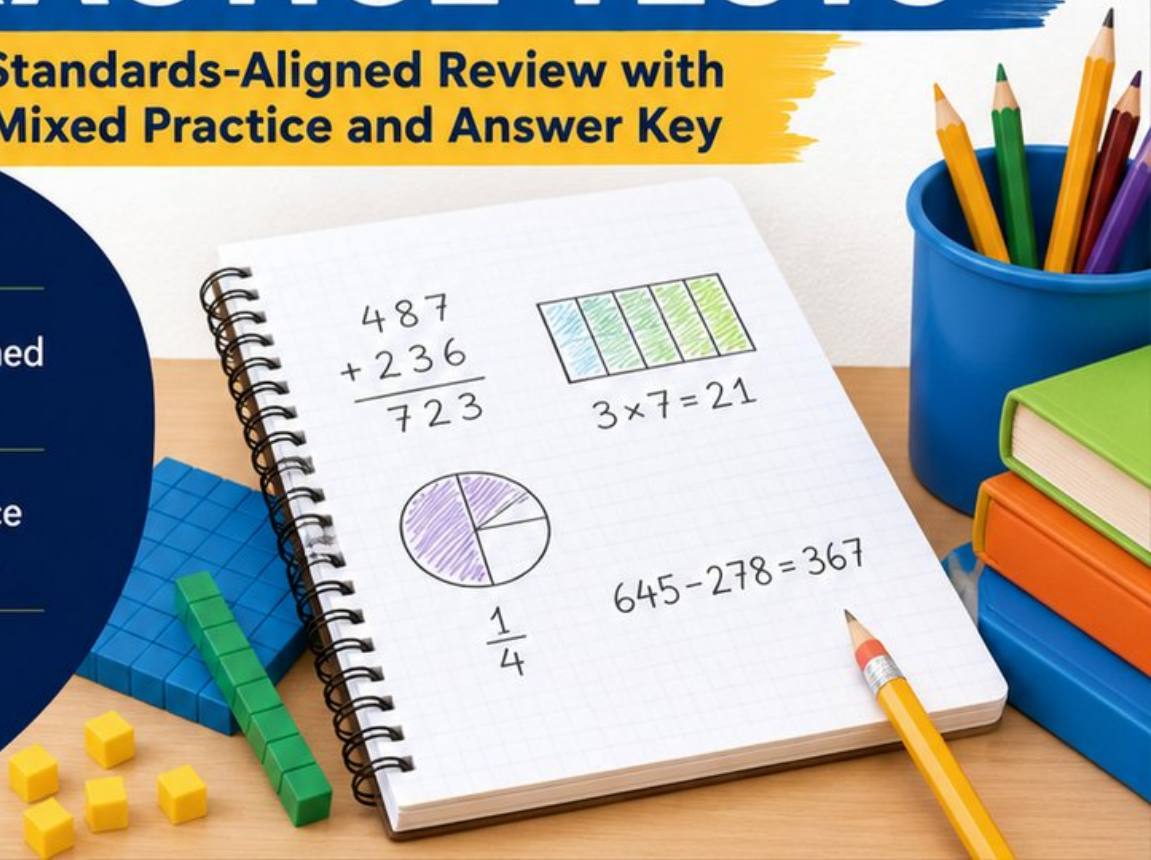
Standards-Aligned  
Questions



Build Confidence  
and Math Skills



Answer Key  
Included



# 8 Arkansas ATLAS Grade 3 Math Practice Tests

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



Eight complete 30-question practice rounds 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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# Arkansas, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Arkansas ATLAS. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Arkansas has Ozark hills, diamond fields, river bends, forest paths, and lively school communities, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use clues to choose the right math tool.

## Your Arkansas Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

**Eight rounds. Thirty questions each. One careful step at a time.**

# How to Use This Book

## A simple eight-round routine for confident review

Use this Arkansas book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

**Best review habit:** In Arkansas, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



# What Is Inside the Eight Tests?

## Mixed Grade 3 math practice for the ATLAS

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

**Arkansas focus:** The practice path starts with Ozark hills, diamond fields, river bends, forest paths, and lively school communities. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



Scan me!  
For more practice  
& answers

# Table of Contents

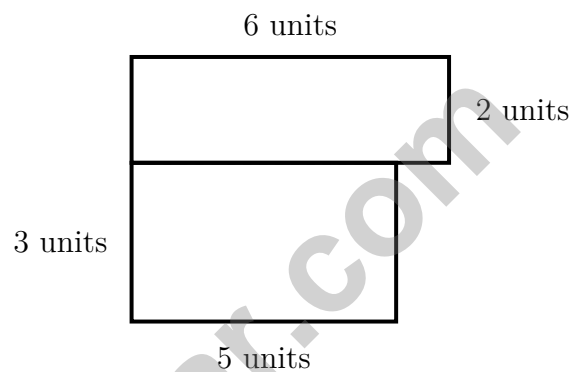
★ Practice Test 1	_____	14
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4) A runner drove 268 miles on Monday and 305 miles on Tuesday. She estimates the total distance by rounding each number to the nearest hundred. What is her estimate?

- A. 500 miles                       C. 700 miles  
 B. 800 miles                       D. 600 miles

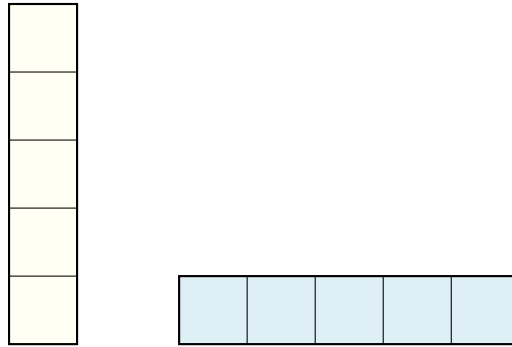
5) An L-shaped shop has two rectangles: top 6 units by 2 units, bottom 5 units by 3 units. What is the total area?



- A. 12 sq units                       C. 15 sq units  
 B. 27 sq units                       D. 36 sq units



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6)

A

B

Shapes A and B both have an area of 5 unit squares. Which shows the correct pairing by dimensions?

- A. A is  $1 \times 5$ , B is  $5 \times 1$        C. Both are the same dimensions  
 B. A is  $5 \times 1$ , B is  $1 \times 5$        D. A is  $1 \times 5$ , B is  $2 \times 3$

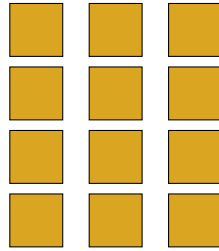
7) Mia groups coins into 9 piles of 10 coins each. Use the place-value chart to show the total.

Tens	Ones
9	0

What is the total number of coins?

- A. 19       C. 910  
 B. 109       D. 90





1)

How many rectangles are shown?

- A. 7 rectangles                       C. 4 rectangles  
 B. 10 rectangles                     D. 12 rectangles

2) What is  $4 \times 50$ ?

3) Which division sentence shows “How many groups of 2 fit in 14?”

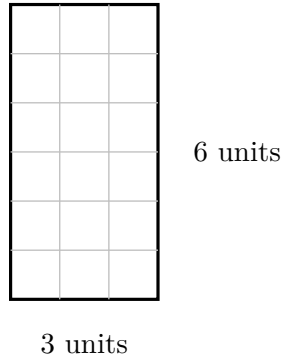
- A.  $2 \div 14$                                C.  $2 \times 14$   
 B.  $14 + 2$                                D.  $14 \div 2$

4) A line plot shows rainfall amounts in inches:  $1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}, 2$ . If there are 2 days with 1 inch, 3 days with  $1\frac{1}{4}$  inches, 2 days with  $1\frac{1}{2}$  inches, and 1 day with  $1\frac{3}{4}$  inches, how many days had 2 inches if the total is 10 days?

- A. 1     C. 3  
 B. 2     D. 4



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5)

Count the unit squares. What is the area?

- A. 9 sq units                       C. 12 sq units  
 B. 18 sq units                       D. 36 sq units

6) Which multiplication fact helps you solve  $32 \div 8$ ?

- A.  $4 \times 8 = 32$                        C.  $8 \times 8 = 64$   
 B.  $5 \times 8 = 40$                        D.  $3 \times 8 = 24$

7) What number makes the equation true?

$$54 \div \square = 9$$

- A. 9                                       C. 7  
 B. 8                                       D. 6





5) A number line from 0 to 1 is divided so that the unit fraction at the first tick is  $\frac{1}{3}$ . How long is the second tick from 0?

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

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

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

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

6) Ana looks at a circle divided into 8 equal parts. One part is shaded. Ana says the shaded part is  $\frac{1}{4}$ . Is she correct? Explain why or why not.

A. Yes, because  $8 \div 2 = 4$

B. No, the shaded part is  $\frac{1}{8}$

C. Yes, one part is always one-fourth

D. No, the shaded part is  $\frac{1}{6}$

7) Here is a rectangle divided into equal parts horizontally.



The rectangle is divided into 4 equal parts. Two parts are shaded. What fraction is shaded?

A.  $\frac{2}{4}$

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

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

D.  $\frac{3}{8}$



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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.CAR.6)** Multiply: 3 columns  $\times$  4 rows = 12 dots.
- 2) **Choice A is correct.** **(3.CAR.9)**  $7 \times 8 = 56$ , so the missing factor is 7. The related division is  $56 \div 8 = 7$ . Multiplication and division work together.
- 3) **Choice A is correct.** **(3.CAR.3)** Option A shows 6 rows and 3 columns. By the commutative property,  $3 \times 6 = 6 \times 3 = 18$ . Flipping rows and columns shows the same product in a different order.
- 4) **Choice D is correct.** **(3.CAR.1)** Round 268 to the nearest hundred: 300 (since  $268 > 250$ ). Round 305 to the nearest hundred: 300. Estimate:  $300 + 300 = 600$  miles. (Exact answer: 573 miles.)
- 5) **Choice B is correct.** **(3.GM.7)** Top:  $6 \times 2 = 12$  sq units. Bottom:  $5 \times 3 = 15$  sq units. Total:  $12 + 15 = 27$  sq units.
- 6) **Choice A is correct.** **(3.GM.6)** Shape A is 1 unit wide and 5 units tall ( $1 \times 5 = 5$ ). Shape B is 5 units wide and 1 unit tall ( $5 \times 1 = 5$ ).
- 7) **Choice D is correct.** **(3.CAR.4)** The chart shows 9 tens and 0 ones, which represents  $9 \times 10 = 90$  coins.
- 8) **Choice B is correct.** **(3.DA.1)** At  $2\frac{1}{4}$  feet there are 2 X's. At  $2\frac{3}{4}$  feet there are also 2 X's.
- 9) **Choice C is correct.** **(3.GM.9)** Read directly from the measuring cup: 500 mL.
- 10) **Choice B is correct.** **(3.NPV.11)** Pie 2 shows  $\frac{1}{2}$  (half shaded) and Pie 3 shows  $\frac{4}{8}$  (half shaded). These are equivalent because  $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$ .
- 11) **Choice A is correct.** **(3.GM.6)** Width is 4. Heights are 4 and 3, totaling 7. Distributive:  $4 \times (4 + 3) = 28$ .
- 12) **Choice A is correct.** **(3.NPV.7)** Option A has 6 equal parts (7 ticks including 0 and 1). Option B has only 4 parts.
- 13) **Choice C is correct.** **(3.NPV.11)**  $\frac{4}{6} = \frac{2}{3}$  because both represent two-thirds of the poster.
- 14) **Choices A and C are correct.** **(3.GM.6)** Compute each product: A is 24 (correct), B is 25, C is 24 (correct), D is 21, E is 22. Only A and C equal 24 square units.
- 15) **Choice B is correct.** **(3.NPV.5)** Same numerator (1), different denominators: halves are bigger pieces than fourths. So  $\frac{1}{2} > \frac{1}{4}$ . Mia ate more because she had one piece of a larger size.
- 16) **Choice B is correct.** **(3.GM.5)** 4 rows of 8 unit squares gives  $4 \times 8 = 32$  unit squares.
- 17) **Choice D is correct.** **(3.NPV.1)** The tens digit is 8. Since  $8 \geq 5$ , round up: 589 rounds to 600.
- 18) **Choice A is correct.** **(3.CAR.5)** Area =  $6 \times 5 = 30$  square meters.
- 19) **Choice A is correct.** **(3.NPV.11)** Any whole number with denominator 1 equals that number.  $5 = \frac{5}{1}$ . Check: (B) is all fifths, (C) is a unit fraction, (D) is not whole.
- 20) **Choice A is correct.** **(3.CAR.8)** Think:  $32 \div 8 = 4$ . Check:  $8 \times 4 = 32$ .
- 21) **Choice B is correct.** **(3.DA.2)**  $2 \times 10 = 20$  cars.
- 22) **Choice A is correct.** **(3.NPV.9)**  $\frac{1}{6}$  means one part out of six equal parts, which is at the first tick mark from 0.
- 23) **The correct answer is 4 sides.** **(3.GM.3)** A rectangle is a quadrilateral, so it has 4 sides.
- 24) **Choice D is correct.** **(3.CAR.5)** Odd numbers increase by 2 each time:  $11 + 2 = 13$ .
- 25) **Choice D is correct.** **(3.CAR.7)** Step 1: Pages per chapter:  $64 \div 8 = 8$  pages. Step 2: Pages read:  $3 \times 8 = 24$  pages.
- 26) **Choice D is correct.** **(3.GM.5)** Area of a square =  $6 \times 6 = 36$  square inches.
- 27) **Choice B is correct.** **(3.GM.5)** For a square with sides of 3 cm:  $3 \times 3 = 9$  square centimeters.
- 28) **Choice C is correct.** **(3.NPV.7)** Rectangle X:  $\frac{2}{4}$  shaded is half. Rectangle Y:  $\frac{4}{8}$  shaded is also half. Even though one has 4 parts and the other has 8 parts, the same amount of area is shaded in both rectangles.
- 29) **Choice C is correct.** **(3.GM.7)** Area = width  $\times$  height =  $11 \times 5 = 55$  square feet.
- 30) **The correct answer is 5.** **(3.NPV.7)**  $15 \div 3 = 5$ . Each basket has 5 apples.

### Practice Test 2 Answers and Explanations



## Hi, Brave Trail-Walker!

◇ You walked all 8 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

### Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

**Guide's tip:** on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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 Trail Guide

# PRACTICE TODAY. MASTER TOMORROW.

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

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



## EACH PRACTICE TEST INCLUDES:



Standards-  
Aligned  
Questions



Variety of  
Question  
Types



Real-World  
Math  
Applications



Step-by-Step  
Progress  
Tracking



Build Skills  
and Boost  
Confidence

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- ✓ Word Problems
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