

# 4 Arkansas ATLAS

Grade 3

# MATH

## PRACTICE TESTS

Standards-Aligned Practice



### STANDARDS-ALIGNED

Practice to build skills and boost confidence



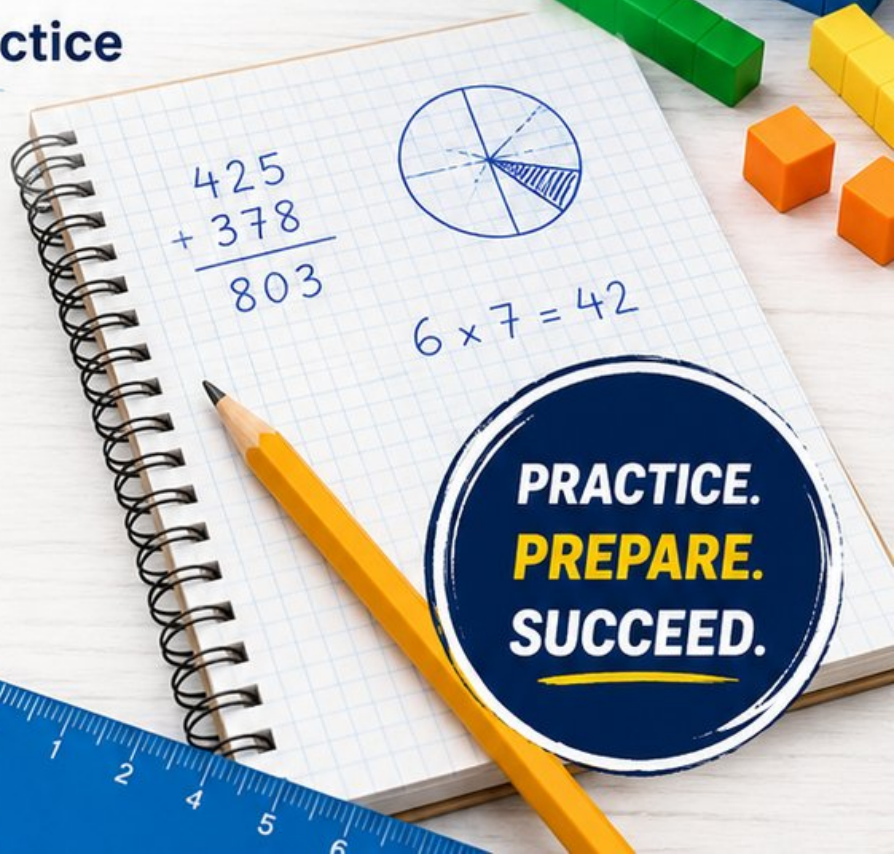
### 4 FULL-LENGTH TESTS

Realistic questions to prepare for test day



### ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



# 4 Arkansas ATLAS 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.

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# Welcome to the Arkansas 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 Arkansas ATLAS. 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.

Arkansas has Ozark hills, river bends, and trail towns that reward steady explorers. Good math uses the same habit: pause, check the details, and move forward with a steady plan.

### 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 Arkansas ATLAS: 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 ATLAS work looks like:** the answer matches the question, the units make sense, and the work is clear enough to check.



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& answers

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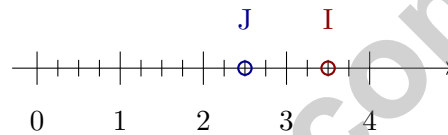
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1) A park is shaped like a rectangle. It is 10 feet long and 8 feet wide. How many square feet is the park?

- A. 18 square feet  
 B. 36 square feet

- C. 80 square feet  
 D. 60 square feet

2) What is  $6 \times 4$ ?



3)

On a number line from 0 to 4 divided into fourths, point  $J$  is at 2.5 and point  $I$  is at 3.5. Which two fractions label these points?

- A.  $J = \frac{10}{4}$ ,  $I = \frac{14}{4}$   
 B.  $J = \frac{10}{4}$ ,  $I = \frac{13}{4}$

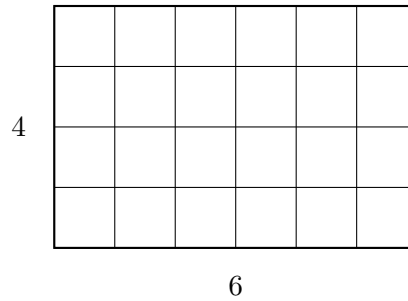
- C.  $J = \frac{8}{4}$ ,  $I = \frac{14}{4}$   
 D.  $J = \frac{5}{4}$ ,  $I = \frac{7}{4}$

4) Talia has 45 stickers. She wants to arrange them in 9 equal rows. How many stickers will be in each row?

- A. 4 stickers  
 B. 7 stickers

- C. 6 stickers  
 D. 5 stickers





5)

The rectangle is tiled with unit squares. How many unit squares are there?

- A. 10                                       C. 24  
 B. 20                                       D. 48

6) Eli has 35 apples. He uses 5 apples to make a pie. He divides the remaining apples equally among 6 friends. How many apples does each friend get?

- A. 5     C. 7  
 B. 6     D. 30

7) Look at this sequence: 20, 25, 30, 35, 40.

What is the rule?

- A. Subtract 5 each time                       C. Multiply by 2 each time  
 B. Skip count by 3                               D. Add 5 each time

8) Which multiplication fact helps you solve  $10 \div 2 = ?$

- A.  $2 \times 5 = 10$                                        C.  $10 \times 2 = 20$   
 B.  $2 \times 10 = 20$                                        D.  $5 \times 5 = 25$



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9) A game starts at 10 : 45 and lasts 1 hour 15 minutes. What time does it end?

10) A garden has 4 rows of flowers. Each row has 7 flowers. How many flowers are in the garden?

A. 24 flowers

C. 32 flowers

B. 11 flowers

D. 28 flowers

11) Which whole number equals  $\frac{8}{4}$ ?

A. 2

C. 1

B. 4

D. 8

12) A rectangular painting is 12 inches wide and 6 inches tall. What is the area of the painting?

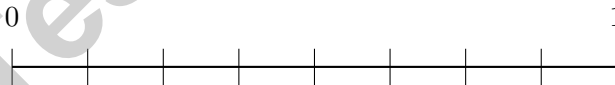
A. 36 sq in

C. 18 sq in

B. 72 sq in

D. 66 sq in

13) A number line from 0 to 1 is split into 8 equal parts. Mark where  $\frac{1}{8}$  is located.



Which tick mark shows  $\frac{1}{8}$ ?

A. The second tick

C. The middle tick

B. The first tick

D. The last tick



1) Which time is the same as 11 : 48?

A. 12 minutes before noon

C. 12 minutes after 11

B. 48 minutes past 11

D. 11 hours and 48 seconds

2) If you have the number \_\_\_\_\_, and you round it to the nearest 10, you get 70. You also know the number is odd. Which number could it be?

A. 65

C. 72

B. 68

D. 74

3) Find  $5 \times (7 + 4)$ .

4 feet



7 feet

4)

Find the area of the rectangle above.

A. 22 sq ft

C. 14 sq ft

B. 32 sq ft

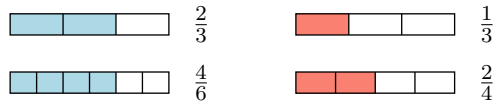
D. 28 sq ft



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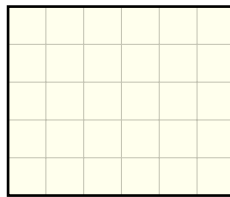


1) Which two fraction bars show equivalent fractions?



- A.  $\frac{2}{3}$  and  $\frac{4}{6}$ 
 C.  $\frac{1}{3}$  and  $\frac{2}{4}$   
 B.  $\frac{2}{3}$  and  $\frac{1}{3}$ 
 D.  $\frac{4}{6}$  and  $\frac{2}{4}$

2) On this grid, how many unit squares cover the rectangle?



- A. 11 sq units
  C. 30 sq units  
 B. 22 sq units
  D. 35 sq units

3) Here is a rectangle divided into 2 equal halves by a vertical line.



The shaded part is what fraction of the rectangle?

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

4) Is every square also a rectangle?

- A. Yes, because a square has 4 sides and 4 right angles
  C. No, because a square has more sides  
 B. No, because a square has equal sides
  D. Yes, only if it is very large



- 5) What fraction is at the right endpoint of a number line split into 2 equal parts?



- 6) A picture graph shows apples in bags. Look at the key and count the symbols.

Key: ● = 5 apples

Bag 1: ● ● ●

Bag 2: ● ● ● ●

- A. Bag 1 has 15 apples, Bag 2 has 20 apples.
- B. Bag 1 has 3 apples, Bag 2 has 4 apples.
- C. Bag 1 has 15 apples, Bag 2 has 10 apples.
- D. Bag 1 has 20 apples, Bag 2 has 15 apples.
- 7) Which number rounds to 400 when rounded to the nearest 100?
- A. 349
- B. 345
- C. 449
- D. 451
- 8) A square has perimeter 32 feet. What is the length of each side?
- A. 4 ft
- B. 16 ft
- C. 8 ft
- D. 32 ft
- 9) Ava buys 4 packs of crayons with 9 crayons in each pack. She already has 7 crayons. Let  $c$  be the total number of crayons. Which equation shows how to find  $c$ ?
- A.  $c = 4 + 9 + 7$
- B.  $c = 9 + 7 - 4$
- C.  $c = 4 \times 9 \times 7$
- D.  $c = (4 \times 9) + 7$



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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.MD.C.5)** Multiply length by width:  $10 \times 8 = 80$  square feet.
- 2) **The correct answer is 24.** **(3.OA.B.5)** By the commutative property,  $4 \times 6 = 6 \times 4 = 24$ .
- 3) **Choice A is correct.** **(3.NF.A.2b)** At 2.5 on fourths:  $\frac{10}{4}$ . At 3.5 on fourths:  $\frac{14}{4}$ .
- 4) **Choice D is correct.** **(3.OA.B.6)**  $45 \div 9 = \square$  means  $\square \times 9 = 45$ . Since  $5 \times 9 = 45$ , each row has 5 stickers.
- 5) **Choice C is correct.** **(3.MD.C.7a)** Count rows and columns:  $6 \times 4 = 24$  square units. Bridge from visual tiling to multiplication.
- 6) **Choice A is correct.** **(3.OA.D.8)** Step 1: Subtract:  $35 - 5 = 30$  apples. Step 2: Divide:  $30 \div 6 = 5$  apples per friend. (Choice D is step 1 only.)
- 7) **Choice D is correct.** **(3.OA.D.9)**  $20 + 5 = 25$ ,  $25 + 5 = 30$ ,  $30 + 5 = 35$ , etc. Each number increases by 5.
- 8) **Choice A is correct.** **(3.OA.A.2)** Division and multiplication are inverse operations. Since  $2 \times 5 = 10$ , then  $10 \div 2 = 5$ .
- 9) **The correct answer is 12 : 00.** **(3.MD.A.1)**  $10 : 45 + 1$  hour is  $11 : 45$ , plus 15 minutes is  $12 : 00$ .
- 10) **Choice D is correct.** **(3.OA.A.1)** 4 rows with 7 flowers each means 4 groups of 7. So  $4 \times 7 = 28$  flowers.
- 11) **Choice A is correct.** **(3.NF.A.3c)**  $\frac{8}{4}$  means 8 fourths. 4 fourths make 1 whole, so 8 fourths make 2 wholes.
- 12) **Choice B is correct.** **(3.MD.C.7b)** Area = width  $\times$  height =  $12 \times 6 = 72$  square inches.
- 13) **Choice B is correct.** **(3.NF.A.2a)** The number line has 8 equal parts, so the first tick is at  $\frac{1}{8}$ .
- 14) **Choices A and C are correct.** **(3.NF.A.3b)**  $\frac{1}{2} = \frac{2}{4}$  (multiply by 2) and  $\frac{1}{2} = \frac{3}{6}$  (multiply by 3). Choice B is wrong because  $\frac{1}{4}$  is one quarter. Choices D and E are not listed as correct.
- 15) **Choice A is correct.** **(3.MD.B.3)** Red:  $2 \times 5 = 10$ . Blue:  $3 \times 5 = 15$ . Green:  $4 \times 5 = 20$ . Total:  $10 + 15 + 20 = 45$ .
- 16) **Choice B is correct.** **(3.MD.C.7d)** Add the areas:  $16 + 12 = 28$  square units.
- 17) **Choice B is correct.** **(3.MD.C.6)**  $8 \text{ units} \times 3 \text{ units} = 24 \text{ unit squares}$ .
- 18) **Choice B is correct.** **(3.MD.A.2)** Read the marking on the measuring cup: 200 mL.
- 19) **Choice D is correct.** **(3.G.A.1)** The word “quadrilateral” means “four sides.” All quadrilaterals, whether squares, rectangles, or trapezoids, have exactly 4 sides.
- 20) **Choice B is correct.** **(3.NF.A.2)** The second tick from 0 is 2 parts out of 3 equal parts, so it represents  $\frac{2}{3}$ .
- 21) **Choice C is correct.** **(3.G.A.2)** The lines do not create equal parts. Lines from the center must divide a circle into equal angles to make equal parts.
- 22) **Choice D is correct.** **(3.MD.C.5b)**  $9 \times 4 = 36$  unit squares.
- 23) **Choice A is correct.** **(3.MD.C.7c)** The distributive property multiplies 4 by each part separately, then adds:  $4 \times (6 + 1) = (4 \times 6) + (4 \times 1)$ .
- 24) **Choice B is correct.** **(3.NF.A.3d)** Three thirds is one whole. Three sixths is half. So  $\frac{3}{3} > \frac{3}{6}$ .
- 25) **Choice B is correct.** **(3.MD.B.4)** Both  $50\frac{1}{2}$  and 52 pages have only 1 X each, but  $50\frac{1}{2}$  is one of the least common. The next most common is 50 pages with 2 X's, and 51 pages appears most often with 4 X's.
- 26) **Choice B is correct.** **(3.MD.C.5a)** The grid is  $5 \times 2 = 10$  unit squares = 10 square units.
- 27) **The correct answer is  $\frac{3}{8}$ .** **(3.NF.A.1)** Add the numerators:  $1 + 1 + 1 = 3$ , so the sum is  $\frac{3}{8}$ .
- 28) **Choice D is correct.** **(3.OA.A.4)** Divide:  $54 \div 9 = 6$ . Check:  $9 \times 6 = 54$ .
- 29) **Choice B is correct.** **(3.MD.C.7)** Area =  $7 \times 2 = 14$  square inches.
- 30) **Choice A is correct.** **(3.NBT.A.2)**  $378 + 215$ : ones  $8 + 5 = 13$  (write 3, carry 1), tens  $7 + 1 + 1 = 9$ , hundreds  $3 + 2 = 5$ . Answer: 593.

### Practice Test 2 Answers and Explanations



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Notes From Your Math Builder

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## Hi, Math Builder!

◇ Through 4 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

### Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

**Builder tip:** on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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 Builder

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# Build Skills. Achieve More.

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