

# 7

# Arkansas

# ATLAS

## 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



# 7 Arkansas ATLAS 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 Arkansas ATLAS. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

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.

### 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. For Arkansas students, each trail moves through Ozark hills, diamond fields, river bends, forest paths, and lively school communities: steady, alert, and ready for the next clue.

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 Arkansas 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 Arkansas ATLAS path.

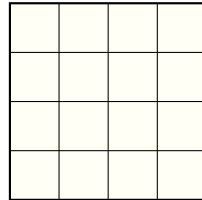


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- 1) Mia needs to tile a floor that is 4 feet by 4 feet using 1-foot by 1-foot tiles (unit squares in feet). How many tiles does she need?



4 feet

- A. 8 tiles                       C. 16 tiles  
 B. 12 tiles                     D. 20 tiles
- 2) Three identical pizzas are divided. Pizza 1 has 2 parts shaded out of 3. Pizza 2 has 4 parts shaded out of 6. Pizza 3 has 3 parts shaded out of 4. Which two are equivalent?
- A. None are equivalent                       C. Pizza 1 and Pizza 3  
 B. Pizza 2 and Pizza 3                       D. Pizza 1 and Pizza 2
- 3) A line plot shows book weights in ounces: 8,  $8\frac{1}{2}$ , 9,  $9\frac{1}{2}$ , 10. Count from the plot shows 1 X at 8 oz, 2 at  $8\frac{1}{2}$  oz, 3 at 9 oz, 2 at  $9\frac{1}{2}$  oz, and 2 at 10 oz. What is the range?
- A. 1 ounce                       C. 2 ounces  
 B.  $1\frac{1}{2}$  ounces                       D.  $2\frac{1}{2}$  ounces
- 4) Which pair of fractions is equivalent?
- A.  $\frac{1}{3}$  and  $\frac{1}{4}$                        C.  $\frac{1}{2}$  and  $\frac{3}{6}$   
 B.  $\frac{2}{8}$  and  $\frac{3}{6}$                        D.  $\frac{2}{3}$  and  $\frac{2}{6}$



- 5) A rectangle has length 5 cm and width 3 cm. Does a rhombus with all sides 5 cm have the same shape as this rectangle?
- A. Yes, because both have sides that are 5 cm
- B. Yes, because both shapes are quadrilaterals
- C. Yes, because all quadrilaterals are the same
- D. No, because they have different properties
- 6) A composite floor shape is split by dashed lines into four rectangles. The areas are 8 sq units, 6 sq units, 6 sq units, and 4 sq units. What is the total floor area?
- A. 24 sq units
- B. 12 sq units
- C. 48 sq units
- D. 18 sq units
- 7) Sam needs to paint a poster that is 10 inches wide and 8 inches tall. What is the total area Sam needs to paint?
- A. 36 sq in
- B. 80 sq in
- C. 18 sq in
- D. 90 sq in
- 8) What number makes the equation true?
- $\times 7 = 42$
- A. 8
- B. 7
- C. 5
- D. 6
- 9) On a number line from 0 to 2 divided into fourths, how many fourths are there in total?



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10) Which comparison is true?

A.  $\frac{3}{4} < \frac{3}{6}$

B.  $\frac{3}{4} = \frac{3}{6}$

C.  $\frac{3}{4} > \frac{3}{6}$  (same numerator,  $4 < 6$ )

D.  $\frac{3}{6} > \frac{3}{4}$  ( $6 > 4$ , so sixths are bigger)

11) A picture graph shows balloons. Each balloon is 1 balloon. Ty has 7 balloons, Sam has 4 balloons. How many balloons do they have altogether?

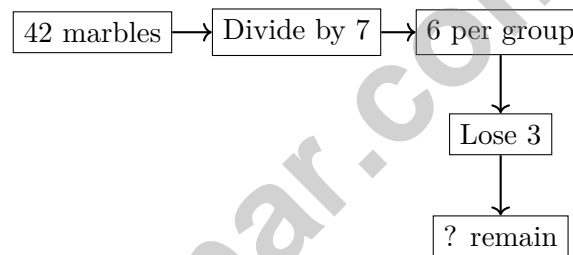
A. 3

B. 7

C. 11

D. 12

12) Tommy has 42 marbles. He divides them into 7 equal groups for a game. Then he loses 3 marbles from one group. How many marbles are in that group now?



A. 3

B. 6

C. 7

D. 42

13) Select the TWO situations that are best represented by multiplication.

 A. Nina has 4 bags of buttons. Each bag has 8 buttons.

 B. There are 12 pencils in a box. How many pencils are left if 3 are removed?

 C. A garden has 6 rows of tomato plants with 5 plants in each row.

 D. A student reads 20 pages and then reads 10 more pages.

 E. A library has 100 books and receives 15 new books.


- 1) A rectangular field is 9 meters long and 5 meters wide. How many square meters is the field?
- A. 14 square meters                       C. 40 square meters  
 B. 45 square meters                       D. 28 square meters
- 2) A line plot shows desk surface measurements in inches: 24,  $24\frac{1}{2}$ , 25,  $25\frac{1}{2}$ , 26. The counts are: 0 at 24 inches, 2 at  $24\frac{1}{2}$  inches, 5 at 25 inches, 1 at  $25\frac{1}{2}$  inches, and 2 at 26 inches. Which measurement appears most often?
- A.  $24\frac{1}{2}$  inches                       C.  $25\frac{1}{2}$  inches  
 B. 25 inches                       D. 26 inches
- 3) Lily arranged 6 rows with 2 stickers in each row. How many stickers does she have?
- A. 8                       C. 14  
 B. 10                       D. 12
- 4) Ava measures a rectangular mat that is 7 units by 5 units. What is its area in square units?
- A. 12 sq units                       C. 24 sq units  
 B. 35 sq units                       D. 70 sq units
- 5) Mia draws a number line from 0 to 1 with 4 equal parts. She skip-counts by fourths:  $\frac{1}{4}$ ,  $\frac{2}{4}$ ,  $\frac{3}{4}$ ,  $\frac{4}{4}$ . Compare  $\frac{2}{4}$  and  $\frac{3}{4}$ . How many fourths apart are they?
- A. 1 fourth                       C. 3 fourths  
 B. 2 fourths                       D. 4 fourths



6) Lily makes 4 necklaces using 5 beads for each necklace. How many beads does Lily use?

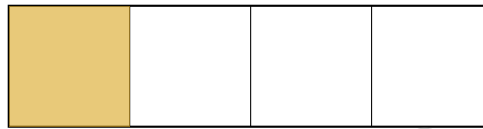
A. 9

C. 25

B. 15

D. 20

7) A rectangle is divided into 4 equal parts. Ben colors  $\frac{1}{4}$  of the rectangle. How many parts does Ben color?



A. 1 part

C. 3 parts

B. 2 parts

D. 4 parts

8) Diego found 6 anthills. Each anthill has 9 ants. How many ants did Diego find?

A. 72 ants

C. 15 ants

B. 48 ants

D. 54 ants

9) A long rectangle has area 60 square units. It is split vertically into two parts. One part is  $4 \times 10$ . What is the area of the other part if they share the same length?

A. 40

C. 30

B. 20

D. 60

10) Write a fraction equivalent to  $\frac{1}{2}$ .



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1) A store sold 816 pencils. Round to the nearest 10 to estimate pencil sales.

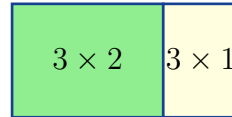
A. 810

C. 820

B. 816

D. 900

2) Look at this model showing  $3 \times (2 + 1)$ . What is the total?



$$\text{Total} = 2 + 1$$

A. 6

C. 12

B. 15

D. 9

3) A picture graph shows stickers. Each heart represents 2 stickers. Mia had 8 hearts, then gave away 3 hearts. How many stickers does Mia have now?

A. 5 stickers

C. 16 stickers

B. 10 stickers

D. 11 stickers

4) Look at the rows in a multiplication table:

×	1	2	3	4
3	3	6	9	12
4	4	8	12	16

What increases by 3 in the row for 3?

A. The multiplier on the top

C. The column number

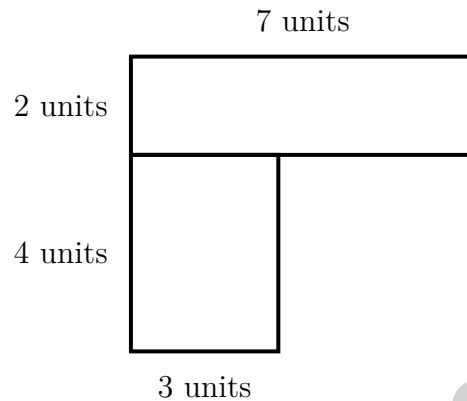
B. The table title

D. The product each time



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- 5) An L-shaped kitchen floor plan shows two rectangular sections. Upper: 7 units by 2 units. Lower left: 3 units by 4 units. What is the total floor area?



- A. 26 sq units                       C. 12 sq units
- B. 14 sq units                       D. 56 sq units
- 6) Noah has a backpack weighing 3 kilograms and a book weighing 500 grams. What is the total mass in grams?
- A. 503 g                               C. 3000 g
- B. 3500 g                               D. 500 g
- 7) Lily's garden is a rectangle with dimensions 4 yards by 7 yards. What is the area of her garden?
- A. 11 sq yd                               C. 28 sq yd
- B. 22 sq yd                               D. 30 sq yd



## 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.GM.6)** A  $4 \times 4$  square needs  $4 \times 4 = 16$  unit squares (tiles of 1 foot by 1 foot).
- 2) **Choice D is correct.** **(3.NPV.11)**  $\frac{2}{3} = \frac{4}{6}$  because both represent two-thirds of the pizza.
- 3) **Choice C is correct.** **(3.DA.1)** Range = maximum - minimum =  $10 - 8 = 2$  ounces.
- 4) **Choice C is correct.** **(3.NPV.5)**  $\frac{1}{2}$  and  $\frac{3}{6}$  both equal half of a whole.
- 5) **Choice D is correct.** **(3.GM.3)** A rectangle with length 5 cm and width 3 cm has two different side lengths and 4 right angles. A rhombus with all sides 5 cm has equal sides but may not have right angles. Different properties mean different shapes.
- 6) **Choice A is correct.** **(3.GM.7)** Add all four parts:  $8 + 6 + 6 + 4 = 24$  square units.
- 7) **Choice B is correct.** **(3.GM.7)** Area = width  $\times$  height =  $10 \times 8 = 80$  square inches.
- 8) **Choice D is correct.** **(3.CAR.8)** Think:  $42 \div 7 = 6$ , so the unknown is 6. Check:  $6 \times 7 = 42$ .
- 9) **The correct answer is 8.** **(3.NPV.8)** Each unit from 0 to 1 has 4 fourths. From 0 to 2 is 2 units, so  $2 \times 4 = 8$  fourths total.
- 10) **Choice C is correct.** **(3.NPV.5)** Same numerator (3), different denominators: fourths are bigger pieces than sixths (the bar is cut into fewer, larger pieces). Three fourths covers more area than three sixths.
- 11) **Choice C is correct.** **(3.DA.2)**  $7 + 4 = 11$  balloons.
- 12) **Choice A is correct.** **(3.CAR.7)** Step 1: Marbles per group:  $42 \div 7 = 6$  marbles. Step 2: Lose from one group:  $6 - 3 = 3$  marbles.
- 13) **Choices A and C are correct.** **(3.CAR.6)** Choices A and C involve finding a total from equal groups. B, D, and E involve subtraction or addition of separate quantities.
- 14) **Choice B is correct.** **(3.CAR.5)** Adding the width 3 seven times:  $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$ . This is the same as  $7 \times 3 = 21$  square units.
- 15) **Choice D is correct.** **(3.CAR.9)**  $30 \div 5 = \square$  means  $\square \times 5 = 30$ . Since  $6 \times 5 = 30$ , there are 6 cookies in each bag.
- 16) **The correct answer is 20.** **(3.GM.11)** 6 : 35 is 20 minutes after 6 : 15.
- 17) **Choice A is correct.** **(3.CAR.4)**  $5 \times 30 = 150$  because  $5 \times 3 = 15$ , then add a zero.  $6 \times 20 = 120$  because  $6 \times 2 = 12$ , then add a zero. Since  $150 > 120$ ,  $5 \times 30$  is greater.
- 18) **Choice D is correct.** **(3.GM.6)**  $4 \times 5 = 20$ ,  $5 \times 4 = 20$ , and  $10 + 10 = 20$ . But  $3 \times 6 = 18$ , which is not 20.
- 19) **Choice A is correct.** **(3.CAR.1)** Ones:  $4 + 6 = 10$  (write 0, carry 1). Tens:  $5 + 8 + 1 = 14$  (write 4, carry 1). Hundreds:  $3 + 1 + 1 = 5$ . Answer: 540.
- 20) **Choice B is correct.** **(3.GM.9)** Subtract:  $2000 - 250 = 1750$  g.
- 21) **Choice A is correct.** **(3.NPV.1)** The ones digit is 4. Since  $4 < 5$ , round down: 734 rounds to 730.
- 22) **Choice B is correct.** **(3.NPV.11)** The denominator was multiplied by 2 (from 2 to 4). Multiply the numerator by 2:  $1 \times 2 = 2$ . So  $\frac{1}{2} = \frac{2}{4}$ .
- 23) **Choice D is correct.** **(3.NPV.11)**  $\frac{2}{2} = 1$  whole. All parts of the rectangle are colored.
- 24) **Choice C is correct.** **(3.GM.5)** Count the rows: 3 rows. Count across: 9 unit squares per row. Total:  $9 + 9 + 9 = 27$  square units cover the carpet.
- 25) **Choice D is correct.** **(3.NPV.7)**  $12 \div 4 = 3$ . The picture shows 4 equal groups, each with 3 items.
- 26) **Choice C is correct.** **(3.CAR.5)**  $5 \times 5 = 25$ . This is sometimes called a "perfect square".
- 27) **The correct answer is 72 square units.** **(3.GM.6)**  $2 + 6 = 8$ , and  $9 \times 8 = 72$  square units.
- 28) **Choice B is correct.** **(3.NPV.9)** On a number line from 0 to 2, the middle tick mark is at 1, which is halfway between 0 and 2.
- 29) **Choice C is correct.** **(3.NPV.7)** Each step is one eighth. Five steps from 0 land at  $\frac{5}{8}$ .
- 30) **Choice B is correct.** **(3.NPV.10)** The rectangle has 3 equal parts, and 1 part is shaded. The unit fraction is  $\frac{1}{3}$  (one-third).



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Cheer Squad Final Pep Talk

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## Hi, Math Star!

◇ 7 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 7 times. That's real confidence. It is not pretend! ★

### Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

**Cheer tip:** on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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 Cheerleader

# 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



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Aligned  
Questions



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