

# 4 Arkansas ATLAS

GRADE  
**6**  
MATH

## PRACTICE TESTS

Standards Aligned Problem Solving  
For Comprehensive Assessment Programs

**4**

**PRINTED  
TESTS**



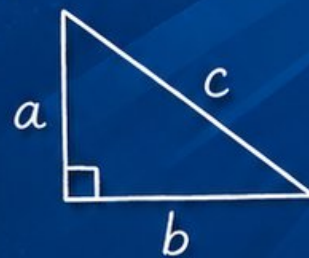
**2**

**ONLINE  
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO  
ADDITIONAL ONLINE  
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER  
THE PRINTED TESTS  
IN THIS BOOK.**

# 4 Arkansas ATLAS Grade 6 Math Practice Tests

*Standards-Aligned River-Valley Review Habits for Arkansas Teaching & Learning Assessment System*



Four complete 40-question Grade 6 practice rounds for ATLAS, built for river-valley review habits with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Arkansas Math Explorer!

Four focused rounds using river-valley review habits

This book gives you four full Grade 6 practice tests for ATLAS. Each round uses Ozark paths, river bends, and careful number choices as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

## Your Arkansas Practice Promise

Slow the question down, organize the facts, and let each step explain the next one.

Read

Plan

Check

## How to Use This Book

A four-session routine for river-valley review habits

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

**Arkansas review rhythm:** Take a test, mark what felt strong, and use corrections as the bridge to the next round.



## What Is Inside?

Four ATLAS tests, 160 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. River-valley review habits means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!  
For more practice  
& answers

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1) A car depreciates in value by 15% each year. If it is worth \$20,000 now, what will it be worth after one year?

A. \$15,000

C. \$17,000

B. \$16,000

D. \$18,000

2) If  $\frac{1}{4}$  gallon of paint costs \$8, how much does 1 gallon of paint cost?

3) Which pair shows numbers with equal absolute values?

A. -3 and -5

C. 4 and -5

B. 2 and -2

D. -6 and -8

4) A container holds 96 fluid ounces of liquid. How many cups does the container hold?

5) On a number line, which pair of numbers are NOT equidistant from zero?

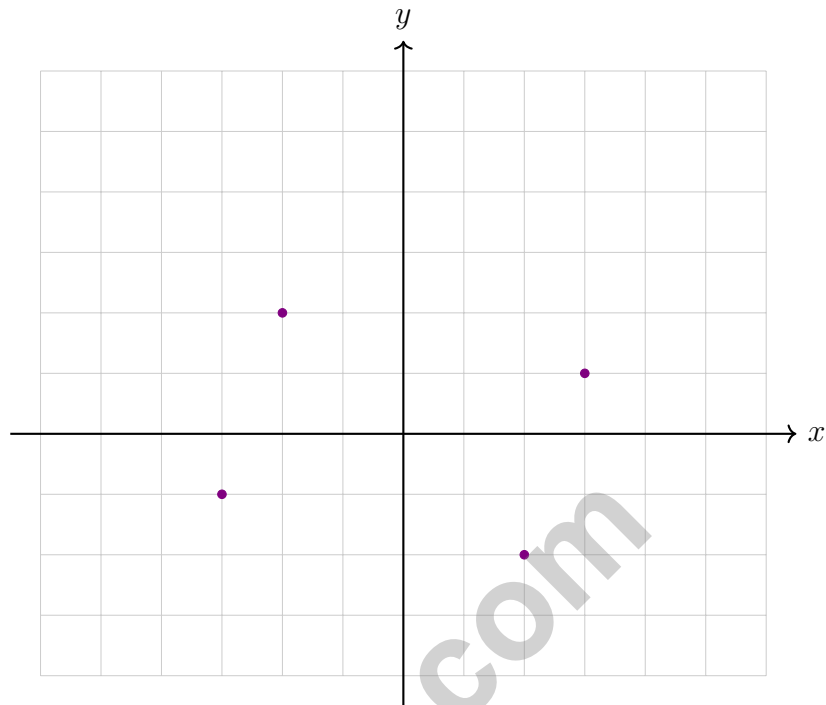
A. -2.5 and 2.5

C. -1.2 and 1.3

B.  $-\frac{3}{4}$  and  $\frac{3}{4}$

D. -0.8 and 0.8





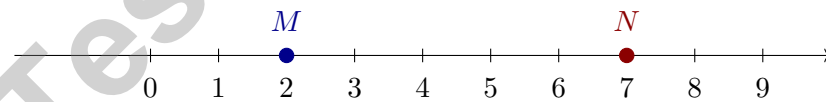
6)

How many of the plotted points are in Quadrant I?

- A. 1
- B. 2

- C. 3
- D. 4

7)



Which equation is correct?

- A.  $M = N$
- B.  $M > N$

- C.  $M + 4 = N$
- D.  $M < N$



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& answers

8) The distance between points  $(4, 5)$  and  $(4, y)$  is 7 units. The points have the same  $x$ -coordinate. What could  $y$  be?

A.  $y = -3$  or  $y = 12$

C.  $y = -1$  or  $y = 11$

B.  $y = -2$  or  $y = 12$

D.  $y = 0$  or  $y = 10$

9) A small box is 7 cm long, 3 cm wide, and 2 cm tall. What is its volume?

A.  $12 \text{ cm}^3$

C.  $28 \text{ cm}^3$

B.  $21 \text{ cm}^3$

D.  $42 \text{ cm}^3$

10) A student plots a rectangle and claims it has vertices at  $(2, 2)$ ,  $(5, 2)$ ,  $(5, 5)$ , and  $(3, 5)$ . What is the error?

 A. The shape is not a rectangle because the sides are not parallel. C. The shape is a rectangle but with incorrect dimensions. B. The  $y$ -coordinates are wrong. D. There is no error.

11) Sofia has assets totaling \$1500 (savings, laptop, jewelry). She owes \$200 in debt. What is her net worth?





6) A tech company surveyed 560 employees about department. The circle graph shows  $\frac{7}{16}$  work in engineering. How many work in engineering?

- A. 220                                       C. 280  
 B. 245                                       D. 315

7) A frequency table shows students' favorite lunch types. If the table shows pizza (18 students), sandwich (12 students), pasta (15 students), and salad (5 students), which bar graph would correctly represent this data?

Which category has the FEWEST students?

- A. Pizza                                       C. Salad  
 B. Sandwich                                       D. Pasta

8) A water fountain fills 54 cups in 9 minutes. What is the rate in cups per minute?

- A. 5 cups per minute                       C. 45 cups per minute  
 B. 63 cups per minute                       D. 6 cups per minute

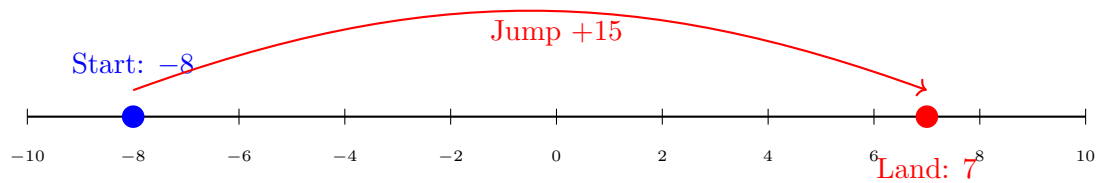
9) 

The diagram shows orange and green counters. What is the ratio of orange to green in fraction form?

- A.  $\frac{7}{3}$      C.  $\frac{3}{7}$   
 B.  $\frac{4}{3}$      D.  $\frac{3}{4}$



- 1) A number line shows a starting position at  $-8$ . A jump of  $+15$  units moves the position forward. Where does it land?



- A.  $-23$                        C.  $23$   
 B.  $15$                           D.  $7$
- 2) What is the mean of the numbers 2, 4, 6, 8, 10?
- A.  $4$                              C.  $5$   
 B.  $6$                              D.  $7$
- 3) Divide 7,020 by 30.
- A.  $234$                           C.  $240$   
 B.  $230$                           D.  $244$
- 4) A student's test score improved from 75 to 93.75. What is the percent increase in the score?



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For more practice  
& answers

5) A school is organizing sports equipment. They have 16 soccer balls and 24 basketballs. They want to distribute them equally into bins with no equipment left over. What is the maximum number of bins needed?

A. 4 bins

C. 16 bins

B. 40 bins

D. 8 bins

6) Expand  $6(2 + 9)$ .

A.  $12 + 54$

C.  $6 + 18$

B.  $12 + 9$

D. 66

7) Jamie receives \$200 per month. He allocates 40% to expenses, 35% to savings, and the rest to entertainment. How much money does he allocate to entertainment?

8) A blueprint shows a room that is 2.5 inches wide, using a scale of 1 inch = 6 feet. What is the actual width of the room in feet?



## Arkansas ATLAS Practice Test Answer Keys

**How to use this Arkansas ATLAS answer section with a Grade 6 student:**

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to river-valley review habits
3. rework the problem before reading the full explanation, using this reminder:  
Slow the question down, organize the facts, and let each step explain the next one.

**A calm Arkansas correction routine turns every missed item into useful practice. Take a test, mark what felt strong, and use corrections as the bridge to the next round.**



Scan me!  
For more practice  
& answers

## Arkansas Practice Test Answers and Explanations

Review the four printed ATLAS tests with steady, practical, and ready to keep improving habits.

### Practice Test 1 Answers and Explanations

- Choice C is correct.** **(6.PR.5)** Depreciation is 15% of  $\$20,000 = 0.15 \times 20,000 = \$3,000$ . Value after one year is  $\$20,000 - \$3,000 = \$17,000$ .
- The correct answer is 32.** **(6.NCC.2)** Unit cost:  $8 \div \frac{1}{4} = 8 \times 4 = 32$  dollars per gallon.
- Choice B is correct.** **(6.SP.7)**  $|2| = 2$  and  $|-2| = 2$ . Numbers that are opposites have equal absolute values.
- The correct answer is 12.** **(6.GM.7)** Divide:  $96 \text{ fl oz} \div 8 \text{ fl oz/cup} = 12$  cups.
- Choice C is correct.** **(6.NCC.2)**  $|-1.2| = 1.2$  and  $|1.3| = 1.3$  are not equal, so they are not equidistant from zero.
- Choice A is correct.** **(6.GM.4)** Only the point  $(3, 1)$  has both positive  $x$  and positive  $y$  coordinates, placing it in Quadrant I.
- Choice D is correct.** **(6.NCC.3)**  $M = 2$  and  $N = 7$ . Since  $2 < 7$ , we have  $M < N$ .
- Choice B is correct.** **(6.GM.6)** Since  $|5 - y| = 7$ , then  $y = 5 - 7 = -2$  or  $y = 5 + 7 = 12$ .
- Choice D is correct.** **(6.GM.2)**  $V = 7 \times 3 \times 2 = 21 \times 2 = 42 \text{ cm}^3$ .
- Choice A is correct.** **(6.GM.5)** The vertices  $(2, 2)$ ,  $(5, 2)$ ,  $(5, 5)$ , and  $(3, 5)$  do not form a rectangle. The bottom side goes from  $x = 2$  to  $x = 5$  (length 3), but the top side goes from  $x = 3$  to  $x = 5$  (length 2). The sides are not parallel, so it is not a rectangle.
- The correct answer is 1300.** **(6.PR.4)** Net worth = Assets - Debts =  $\$1500 - \$200 = \$1300$ .
- Choice C is correct.** **(6.GM.1)** Base:  $10 - 4 = 6$  units. Height:  $5 - 1 = 4$  units. Area =  $\frac{1}{2} \times 6 \times 4 = 12$  square units.
- Choice B is correct.** **(6.GM.3)** Lateral surface area (the three rectangles) = perimeter of base  $\times$  height =  $18 \times 5 = 90 \text{ cm}^2$ .
- Choice A is correct.** **(6.GM.5)** Reflection over the  $x$ -axis negates the  $y$ -coordinate:  $R(2, 3) \rightarrow R'(2, -3)$ .
- Choice B is correct.** **(6.NCC.10)** Multiply:  $2.5 \times 3 = 7.5$  kg.
- Choice D is correct.** **(6.ALG.7)** Total cost =  $a + 15 = 20 + 15 = 35$  cents.
- Choice B is correct.** **(6.ALG.6)** Starting number minus 12 sold equals 28 remaining. So  $x - 12 = 28$ , giving  $x = 40$ .
- The correct answer is  $\frac{2}{5} = 40\%$  and  $0.6 = 60\%$ .** **(6.PR.5)** A is correct:  $\frac{2}{5} = \frac{40}{100} = 40\%$ . B is correct:  $0.6 \times 100 = 60\%$ . C is wrong because  $\frac{7}{10} = 70\%$ , D is wrong because  $0.08 = 8\%$ , and E is wrong because  $\frac{1}{8} = 12.5\%$ .
- Choice C is correct.** **(6.NCC.12)** "No more than" means the weight limit is at most 5,000 pounds:  $w \leq 5,000$ .
- Choice C is correct.** **(6.SP.1)** Correct entertainment budget: 15% of  $\$2000 = 0.15 \times 2000 = \$300$ . The parent allocated  $\$400$  when it should be  $\$300$ .
- The correct answer is 4.** **(6.PR.2)** Check the ratio each time:  $8/2 = 4$ ,  $16/4 = 4$ , and  $24/6 = 4$ . The constant of proportionality is 4.
- Choice A is correct.** **(6.PR.4)** Multiply:  $3.5 \times 15 = 52.5$  miles.
- Choice B is correct.** **(6.NCC.7)** Dividend  $2\frac{1}{4}$  becomes  $\frac{9}{4}$ . Flip  $\frac{3}{4}$  to  $\frac{4}{3}$ , multiply:  $\frac{9}{4} \times \frac{4}{3}$ , and the fractions cancel cleanly to leave 3 whole loaves—no leftover dough for another full loaf.
- Choice A is correct.** **(6.NCC.10)**  $8,712 \div 12 = 726$ . The factory makes 726 light bulbs each day.
- Choice D is correct.** **(6.NCC.12, 6.NCC.13, 6.NCC.11)** The factors of 24 are 1, 2, 3, 4, 6, 8, 12, 24. Since 5 is not a factor of 24, we cannot divide equally into groups of 5.
- Choice D is correct.** **(6.NCC.13)** Factors of 9: 1, 3, 9. Factors of 12: 1, 2, 3, 4, 6, 12. Common factors: 1, 3. GCF is 3.
- Choice D is correct.** **(6.NCC.1)** Numbers between  $-4$  and  $0$  are  $-3$ ,  $-2$ , and  $-1$ . The number  $-5$  is less than  $-4$ , so it is not between  $-4$  and  $0$ .
- Choice C is correct.** **(6.NCC.9)**  $-4 - (-7) = -4 + 7 = 3$ . Subtracting a negative is the same as adding its opposite.



A Quiet Word From Your Mentor

---

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 4 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

**What I See in You**

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

**Mentor's note:** on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside 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 Mentor

# PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.

## THIS BOOK INCLUDES:

**4** Full-Length Printed Tests

**2** Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.  
GREATER RESULTS.**

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

## WHAT YOU'LL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



### Test Confidence

Familiarize with test formats and improve accuracy and speed.



### Achieve Success

Build confidence and perform your best on test day.

## TOPICS COVERED

- ✓ Ratios & Rates
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



### 2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.



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