

# 9

# Arkansas ATLAS

GRADE

# 6

MATH

## PRACTICE TESTS

Standards-Aligned Review  
Mixed Practice & Answer Key



### 9 PRINTED TESTS

Realistic practice to build confidence and mastery



### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



### BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



9 PRINTED TESTS  
+2 ONLINE TESTS

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

**PRACTICE TODAY.  
SUCCEED TOMORROW.**



PRACTICE



REVIEW



SUCCEED

# 9 Arkansas ATLAS Grade 6 Math Practice Tests

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



Nine 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**



# Copyright ©

## Testinar Inc



Published by Testinar Inc

[Testinar.com](http://Testinar.com)

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



*Copyright ©*

# Welcome, Arkansas Math Explorer!

Nine focused rounds using river-valley review habits

This book gives you nine 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 nine-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?

Nine ATLAS tests, 360 questions, and a full review path

| Part         | What You Will Practice   |
|--------------|--|
| Tests 1–3    | Foundation rounds for ratios, rational numbers, operations, and careful reading.       |
| Tests 4–6    | Skill-building rounds with expressions, equations, geometry, data, and problem models. |
| Tests 7–9    | Final stamina rounds for mixed review, neat work, and flexible strategy choices.       |
| 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

# Table of Contents

|   |       |            |
|---|-------|------------|
| ★ Practice Test 1                             | _____ | 14         |
| ★ Practice Test 2                             | _____ | 28         |
| ★ Practice Test 3                             | _____ | 46         |
| ★ Practice Test 4                             | _____ | 63         |
| ★ Practice Test 5                             | _____ | 78         |
| ★ Practice Test 6                             | _____ | 95         |
| ★ Practice Test 7                             | _____ | 111        |
| ★ Practice Test 8                             | _____ | 125        |
| ★ Practice Test 9                             | _____ | 139        |
| <b>Practice Test Answer Keys</b>              | _____ | <b>154</b> |
| <b>Practice Test Answers and Explanations</b> | _____ | <b>160</b> |

1) Simplify  $2x + 5 + 3x + 1$ .

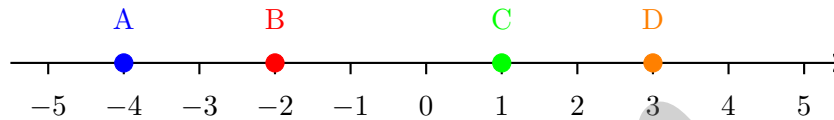
A.  $6x$

C.  $6x + 6$

B.  $5x + 6$

D.  $5x + 5$

2) The number line below shows points labeled A, B, C, and D. Which point represents the number  $-2$ ?



A. Point A

C. Point C

B. Point B

D. Point D

3)



Which is true?

A. Red = Blue

C. Red < Blue

B. Red > Blue

D. They are opposite

4) A trail is 12 kilometers long. If a hiker walks 3 kilometers, how many meters has the hiker walked?

A. 3,000 meters

C. 30,000 meters

B. 300 meters

D. 30 meters



5) Which statement about proportional relationships is true?

- A. The graph must be a curved line
- B. The ratio  $y/x$  must be constant
- C. The line must have a  $y$ -intercept other than 0
- D. The ratio can change from point to point

6) What is  $\frac{11}{12} \div \frac{1}{3}$ ?

- A.  $\frac{11}{36}$
- B.  $\frac{4}{11}$
- C.  $2\frac{3}{4}$
- D.  $\frac{12}{11}$

7) A paint can holds 3.8 liters. How much paint is in two cans?

- A. 5.8 L
- B. 1.9 L
- C. 6.8 L
- D. 7.6 L

8) Simplify the ratio 36 : 48 to its lowest terms. Show the GCF you use.

9) Which expression is equivalent to  $35 + 49$ ?

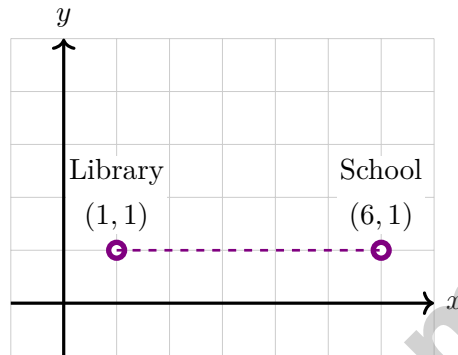
- A.  $5(7 + 9.8)$
- B.  $7(5 + 7)$
- C.  $7(5 + 49)$
- D.  $49(0.71 + 1)$



Scan me!  
For more practice  
& answers

10) What is the reflection of  $(7, -2)$  across the  $y$ -axis?

- A.  $(-7, 2)$                        C.  $(7, 2)$   
 B.  $(-7, -2)$                      D.  $(2, 7)$



11)

On a map, the library is at  $(1, 1)$  and the school is at  $(6, 1)$ . If each unit is 200 meters, what is the distance?

- A. 600 m                               C. 1000 m  
 B. 800 m                               D. 1200 m

12) What is  $-7 + 3$ ?

- A.  $-10$                                  C. 4  
 B.  $-4$                                    D. 10

13) A book costs  $b$  dollars. A pencil costs \$2 less than the book. Which expression shows the cost of the pencil in dollars?

- A.  $b + 2$                                  C.  $2b$   
 B.  $2 - b$                                  D.  $b - 2$



1) What is  $6,216 \div 38$ ?

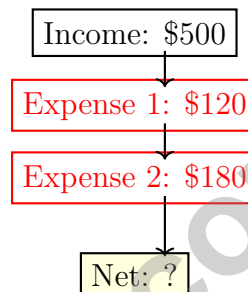
A. 163

C. 165

B. 164

D. 168

2) A business account tracks income and expenses. A company has income of \$500 and expenses of \$120, then more expenses of \$180. What is the net profit or loss?



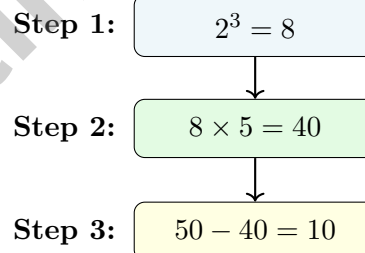
A. \$800 profit

C. \$200 profit

B. \$200 loss

D. \$800 loss

3)



Evaluate:  $50 - 2^3 \times 5$

A. 10

C. 30

B. 20

D. 40



Scan me!  
For more practice  
& answers

4) A company is packing gift sets. They have 32 mugs and 48 candles. Each gift set will have the same number of mugs and candles with nothing left over. What is the maximum number of gift sets?

A. 8 sets

C. 16 sets

B. 12 sets

D. 32 sets

5) A baker needs to convert  $\frac{3}{4}$  of a pound of flour to ounces. How many ounces of flour does the baker need?

6) Which expression means “a number  $x$  minus 9”?

A.  $9 - x$

C.  $x + 9$

B.  $x - 9$

D.  $\frac{x}{9}$

7) Which expression is NOT equivalent to  $24 + 36$ ?

A.  $6(4 + 6)$

C.  $4(6 + 9)$

B.  $12(2 + 3)$

D.  $3(7 + 12)$

8) Which statement is true?

A.  $(-2, 3)$  is in Quadrant III

C.  $(-5, -6)$  is in Quadrant III

B.  $(4, -1)$  is in Quadrant II

D.  $(3, 2)$  is in Quadrant IV



1) Find the LCM of 4 and 6.

A. 12

C. 24

B. 10

D. 8

2) A basketball team's scores in seven games are 56, 62, 58, 71, 65, 60, 68. When ordered: 56, 58, 60, 62, 65, 68, 71. Identify  $Q_1$ .

A. 56

C. 60

B. 62

D. 58

3) A survey asks: "How many hours did you spend reading last week?"  
What is the population for this question?

A. All the people whose reading time is being studied

C. Books in the library

B. Hours of the day

D. The number 7

4) A dataset has  $Q_1 = 8$  and  $Q_3 = 20$ . What is the range of the middle 50% of the data?

A. 8

C. 20

B. 28

D. 12



Scan me!  
For more practice  
& answers



**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.**



## Arkansas Practice Test Answers and Explanations

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

### Practice Test 1 Answers and Explanations

- Choice B is correct.** **(6.ALG.4)** Combine like terms:  $(2x + 3x) + (5 + 1) = 5x + 6$ .
- Choice B is correct.** **(6.NCC.2)** Reading from the number line, point B is located at the tick mark labeled  $-2$ .
- Choice C is correct.** **(6.NCC.3)** Red is at  $-3$  and Blue is at  $1$ . Since  $-3 < 1$ , Red is less than Blue.
- Choice A is correct.** **(6.GM.7)** Multiply:  $3 \times 1000 = 3000$  meters.
- Choice B is correct.** **(6.PR.2)** A proportional relationship has a constant ratio between variables. Its graph is a straight line through the origin, and the constant ratio is the constant of proportionality.
- Choice C is correct.** **(6.NCC.7)**  $\frac{11}{12} \times 3 = \frac{33}{12} = \frac{11}{4} = 2\frac{3}{4}$ .
- Choice D is correct.** **(6.NCC.10)** Multiply:  $3.8 \times 2 = 7.6$  liters.
- The correct answer is 3 : 4.** **(6.PR.3)** Find the greatest common factor first:  $\text{gcd}(36, 48) = 12$ . Divide both parts by 12 to get  $\frac{36}{12} : \frac{48}{12} = 3 : 4$ .
- Choice B is correct.** **(6.NCC.13)** GCF of 35 and 49 is 7. So  $35 + 49 = 7(5 + 7)$ . Only Choice B uses the GCF and whole numbers.
- Choice B is correct.** **(6.GM.4)** Reflecting across the  $y$ -axis changes the sign of the  $x$ -coordinate. The point  $(7, -2)$  becomes  $(-7, -2)$ .
- Choice C is correct.** **(6.GM.6)** Distance on map:  $|6 - 1| = 5$  units. Actual distance:  $5 \times 200 = 1000$  meters.
- Choice B is correct.** **(6.NCC.9)** Start at  $-7$  on a number line and move 3 units right:  $-7 + 3 = -4$ .
- Choice D is correct.** **(6.ALG.7)** “2 less than” means subtract 2 from the book’s cost.
- Choice C is correct.** **(6.NCC.12)** The grade requires  $g \geq 80$ . Since  $79.9 < 80$ , it does not meet the requirement for a B.
- Choice C is correct.** **(6.GM.2)**  $V = 12 \times 3 \times 4 = 36 \times 4 = 144 \text{ ft}^3$ .
- Choice D is correct.** **(6.GM.3)** When all linear dimensions are scaled by a factor of 2, surface area scales by a factor of  $2^2 = 4$ .
- Choice A is correct.** **(6.SP.4)** The peak is in the middle (75) with roughly balanced bars on either side (65 and 85 have similar shapes). This is roughly symmetric.
- Choice C is correct.** **(6.SP.3)** Total students = 30, so the median is at position 15.5 (average of 15th and 16th values). Cumulative: 60–69 ( $n = 5$ ), 70–79 ( $n = 13$ ), 80–89 ( $n = 23$ ). The 15th and 16th values fall in the 80–89 interval.
- Choice A is correct.** **(6.NCC.10)**  $7,600 \div 25 = 304$ . Verify:  $25 \times 304 = 7,600$ .
- The correct answer is 18.** **(6.PR.1)** The ratio of sixth graders to seventh graders is  $4 : 6$ , which simplifies to  $2 : 3$ . If 2 parts are 12 students, each part is 6, so seventh graders are  $3 \times 6 = 18$ .
- Choice B is correct.** **(6.NCC.12, 6.NCC.13, 6.NCC.11)**  $100 = 4 \times 25 = (2 \times 2) \times (5 \times 5) = 2^2 \times 5^2$ . Options A, C, and D use composite numbers.
- The correct answer is A and C are correct.** **(6.PR.4)** A:  $6 \times 3 = 18$  feet (correct). B:  $4 \times 3 = 12$  feet, not 10 (incorrect). C:  $21 \div 3 = 7$  inches (correct). D:  $9 \div 3 = 3$  inches, not 2 (incorrect). E:  $5 \times 3 = 15$  feet, not 16 (incorrect).
- Choice B is correct.** **(6.NCC.10)** A drop of  $7^\circ$  per hour for 5 hours:  $(-7) \times 5 = -35^\circ$ . The temperature decreases by  $35^\circ$  total.
- Choice A is correct.** **(6.ALG.3)** “The quotient of  $g$  and 3” is  $\frac{g}{3}$ . “Increased by 1” means add 1:  $\frac{g}{3} + 1$ .
- Choice B is correct.** **(6.ALG.2)** Option B has exactly 3 terms:  $3a$ ,  $2b$ , and  $c$ . Options A, C, and D have different numbers of terms.
- Choice B is correct.** **(6.NCC.3)**  $x < 7$  excludes 7 (open circle) and includes all numbers less than 7 (arrow points left).
- Choice B is correct.** **(6.GM.3)** Area =  $\pi r^2 \approx 3.14 \times 2^2 = 3.14 \times 4 = 12.56 \text{ cm}^2$ .



## Hi, Math Athlete!

◇ 9 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

### Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

**Trainer tip:** on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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 Trainer

# PRACTICE MORE. ACHIEVE MORE.

This **Grade 6 Math Practice Tests** book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on any test.

With 9 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

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

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence



**PRACTICE TODAY.  
SUCCEED TOMORROW.**

## WHAT STUDENTS WILL 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 math concepts aligned with standards.



### Test Confidence

Get familiar with test formats and improve accuracy.



### Achieve Success

Build confidence and perform your best on test day.

## TOPICS COVERED

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



## 2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

## MORE PRACTICE. GREATER RESULTS.

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



9 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS