

6

Arkansas ATLAS

GRADE

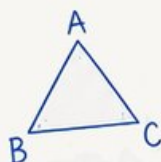
6

MATH

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



6 PRINTED TESTS + 2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills

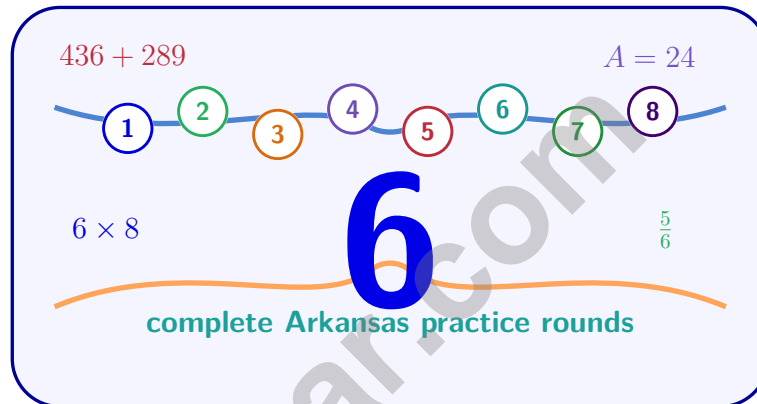


SUCCEED

Build confidence and achieve your best

6 Arkansas ATLAS Grade 6 Math Practice Tests

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



Six 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!

Eight focused rounds using river-valley review habits

This book gives you six 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 six-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?

Eight ATLAS tests, 320 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 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round 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

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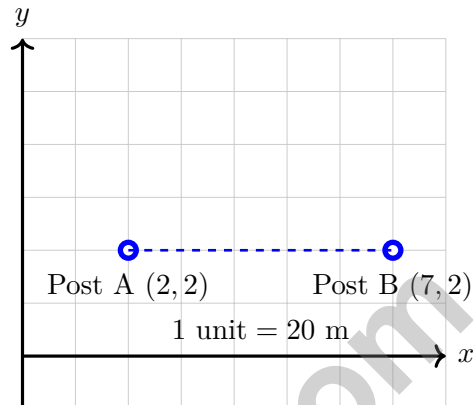
5) Which comparison is false?

A. $-7 < -2$

C. $-6 > -4$

B. $0 > -5$

D. $3 > -1$



6)

Two fence posts are located at $(2, 2)$ and $(7, 2)$ on a map. If each unit equals 20 meters, what is the actual distance between the posts?

A. 80 m

C. 120 m

B. 140 m

D. 100 m

7) A school has s students. It also has $s + 25$ staff members. If the school has 600 students, how many staff members does it have?



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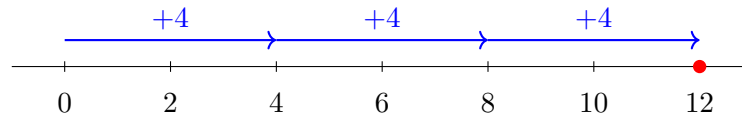
8) Which sequence shows integers in order from least to greatest?

A. $-8, -3, 0, 5, 12$

C. $-3, -8, 0, 5, 12$

B. $12, 5, 0, -3, -8$

D. $0, -3, -8, 5, 12$



9)

The number line shows three equal jumps from 0 that land on 12. Which multiplication does this represent?

A. 3×4

C. 3×3

B. 4×4

D. $4 + 3$

10) A right triangle has legs of 11 inches and 18 inches. Calculate the area of the triangle.

11) Evaluate: $(7 - 4)^2 + 5$

A. 8

C. 21

B. 14

D. 53

12) Which expression matches “twice the quotient of 15 and j ”?

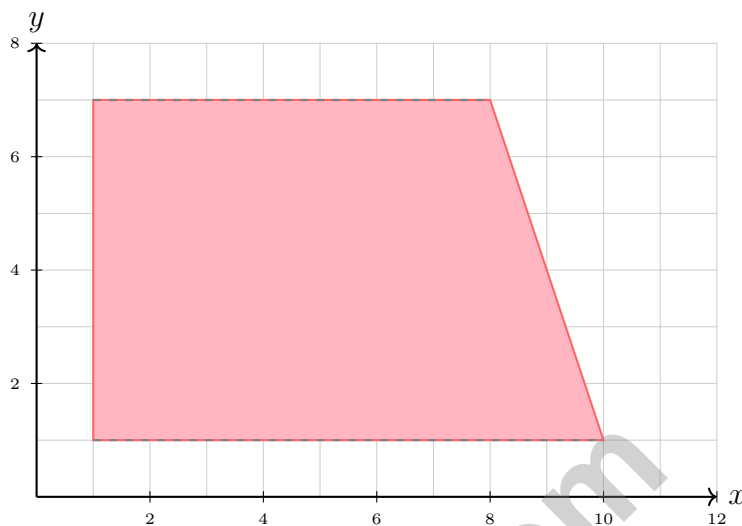
A. $\frac{2 \cdot 15}{j}$

C. $15 - 2j$

B. $2j + 15$

D. $2 \cdot \frac{15}{j}$





1)

A trapezoid has vertices at (1, 1), (10, 1), (8, 7), and (1, 7). If the two parallel sides have lengths 9 and 7 units, and the height is 6 units, what is the area?

- A. 42 square units
- B. 48 square units
- C. 54 square units
- D. 60 square units

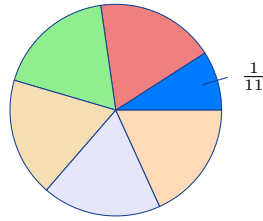
2) A jar contains 24 buttons: 9 red, 7 blue, and 8 yellow. If one button is chosen at random, what is the probability it is blue or yellow?

- A. $\frac{7}{24}$
- B. $\frac{8}{24}$
- C. $\frac{15}{24}$
- D. $\frac{16}{24}$

3) In a back-to-back stem-and-leaf plot, Class A (left) and Class B (right) show test scores. What is the smallest score in Class A?

Class A	Stem	Class B
7, 5, 2	8	1, 4, 6

- A. 81
- B. 82
- C. 84
- D. 86



4)

A movie theater has 550 patrons. The circle graph shows $\frac{1}{11}$ bought popcorn. How many bought popcorn?

 A. 50 C. 60 B. 40 D. 70

5) A statistical question about favorite sports should ask about one student or a group of students?

6) A box plot for a dataset shows: minimum 15, Q1 30, median 45, Q3 60, maximum 85.

What does the length of the box represent?

 A. The interquartile range (IQR) C. The distance from minimum to median B. The entire range of data D. The standard deviation

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& answers

1) Two basketball teams' season statistics:

Team	Mean PPG	Std Dev
Hawks	72	8
Falcons	70	14

Which team had more consistent scoring?

- A. Hawks (lower standard deviation) D. Cannot tell from standard deviation
 B. Falcons (higher mean) C. Both equally consistent
- 2) In a video game, the ratio of points earned to power-ups collected is 8 : 2. Which phrase correctly describes this ratio?
- A. For every 2 points there are 8 power-ups. C. For every 1 point there are 4 power-ups.
 B. There are exactly 8 points and 2 power-ups total. D. For every 8 points there are 2 power-ups.
- 3) A basketball player scores 42 points in 6 games. What is the average rate in points per game?
- A. 6 points per game C. 7 points per game
 B. 36 points per game D. 48 points per game
- 4) The ratio table shows the cost of different quantities of books.

Books	2	4	6
Cost	\$8	\$16	\$24

What is the unit price per book?

- A. \$2 per book C. \$6 per book
 B. \$4 per book D. \$8 per book



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- 5) A runner completes 5 miles in 50 minutes. The table below shows equivalent distances and times. Which time is missing?

Distance (miles)	Time (minutes)
5	50
10	100
15	?

- A. 120 C. 150
 B. 140 D. 160
- 6) A ratio table is being converted to points for graphing. The table shows:

Students	Desks
4	2
8	4
12	6

- If students are on the x-axis and desks are on the y-axis, which ordered pair is correct?
- A. (2, 4) C. (4, 4)
 B. (4, 2) D. (2, 2)
- 7) A restaurant bill comes to \$45. The customer wants to leave a 20% tip. How much is the tip?

- A. \$4.50 C. \$18.00
 B. \$9.00 D. \$27.00



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 six printed ATLAS tests with steady, practical, and ready to keep improving habits.

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.PR.1)** The red-to-blue ratio is 6 : 9. Divide both parts by 3 to get 2 : 3, so the blank should be 3.
- 2) **Choice D is correct.** **(6.ALG.6)** Two blocks of 8 grams balance x . So $x = 8 + 8 = 16$. Also written as $x = 2 \times 8 = 16$.
- 3) **Choice B is correct.** **(6.NCC.12)** “No more than” means at most 65, which allows 65 and anything less: $s \leq 65$.
- 4) **Choice D is correct.** **(6.GM.4)** The points differ only in the sign of the y -coordinate, which is the definition of reflection across the x -axis.
- 5) **Choice C is correct.** **(6.NCC.3)** $-6 < -4$ is the correct statement. All other comparisons are true.
- 6) **Choice D is correct.** **(6.GM.6)** Distance on map: $|7 - 2| = 5$ units. Actual distance: $5 \times 20 = 100$ meters.
- 7) **The correct answer is 625.** **(6.ALG.7)** If $s = 600$, then staff = $s + 25 = 600 + 25 = 625$.
- 8) **Choice A is correct.** **(6.NCC.9)** Integers increase from left to right on a number line. $-8 < -3 < 0 < 5 < 12$.
- 9) **Choice A is correct.** **(6.NCC.10)** The diagram shows 3 groups (jumps) of size 4 added together: $4 + 4 + 4 = 12$, which is the same as $3 \times 4 = 12$.
- 10) **The correct answer is 99.** **(6.GM.1)** $A = \frac{1}{2} \times 11 \times 18 = 99 \text{ in}^2$.
- 11) **Choice B is correct.** **(6.ALG.3)** Parentheses first: $7 - 4 = 3$. Exponent next: $3^2 = 9$. Finally add: $9 + 5 = 14$.
- 12) **Choice D is correct.** **(6.ALG.3)** “The quotient of 15 and j ” is $\frac{15}{j}$. “Twice” that quotient means multiply by 2: $2 \cdot \frac{15}{j}$.
- 13) **Choice B is correct.** **(6.ALG.2)** The coefficient is just the number, not the entire term. The term is $-12z$; the coefficient is -12 .
- 14) **Choice C is correct.** **(6.ALG.3)** Substitute $l = 8$ and $w = 6$: $A = 8 \times 6 = 48$ square units.
- 15) **Choice A is correct.** **(6.ALG.4)** The student applied 2 to the $4x$ (getting $8x$) but forgot to multiply 2 by 3. The correct answer is $8x + 6$.
- 16) **Choice C is correct.** **(6.NCC.3)** “At least 500” means ≥ 500 , which requires a closed circle (includes 500) and an arrow pointing right (toward higher scores).
- 17) **Choice D is correct.** **(6.ALG.2)** Total cost equals the hourly rate (\$60) times hours plus the fixed fee (\$50): $C = 60h + 50$.
- 18) **Choice B is correct.** **(6.GM.5)** Perimeter = $2(8 + 4) = 2(12) = 24$ units.
- 19) **Choice D is correct.** **(6.GM.1)** Base: $9 - 1 = 8$ units. Height: $7 - 1 = 6$ units. Area = $\frac{1}{2} \times 8 \times 6 = 24$ square units.
- 20) **The correct answer is Opposite numbers and equivalent decimals/fractions.** **(6.NCC.2)** Statement B is correct because opposites are the same distance from zero on opposite sides. Statement C is correct because $0.25 = \frac{1}{4}$, so $-0.25 = -\frac{1}{4}$. Statements A, D, and E are false.
- 21) **Choice A is correct.** **(6.GM.3)** A cube has 6 equal square faces. If $SA = 54$, then each face has area $54 \div 6 = 9 \text{ cm}^2$. Since each face is a square, $s^2 = 9$, so $s = 3 \text{ cm}$.
- 22) **Choice D is correct.** **(6.GM.5)** The x -coordinate stays the same; only the y -coordinate changes sign. This is reflection over the x -axis.
- 23) **Choice C is correct.** **(6.SP.9)** This is a statistical question requiring data collection because different students have different favorite colors. The other questions have single, fixed answers found through knowledge, not data collection.
- 24) **The correct answer is 120.** **(6.GM.1)** Area = $15 \times 8 = 120$ square inches.
- 25) **Choice B is correct.** **(6.SP.5)** Week 1 values cluster tightly around \$200 (range = 35), while Week 2 has more scattered values including \$160 and \$240 (range = 80). Greater spread typically indicates higher MAD, so Week 2 likely has a higher MAD.
- 26) **Choice B is correct.** **(6.SP.9)** The data has a single peak in the center with equal frequencies decreasing on both sides, characteristic of a symmetric distribution.



Scan me!
For more practice
& answers

Hi, Math Pilot!

◇ 6 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Pilot

PRACTICE TODAY. SUCCEED TOMORROW!

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 comprehensive assessments.

With 6 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.

6
PRINTED
TESTS

+
2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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 concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar with test formats and improve accuracy and speed.



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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS