

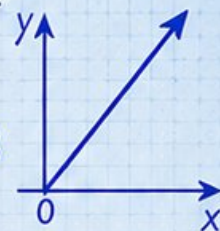
3 Arkansas ATLAS

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

$$y = 2x + 3$$



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

$$36\% \text{ of } 150 = ?$$



3 | PRINTED
TESTS



2 | ONLINE
TESTS



Build
Confidence



Master Key
Math Skills



Answer Explanations
for Every Question



Test-Taking
Strategies That Work

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

3 Arkansas ATLAS Grade 6 Math Practice Tests

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

$436 + 289$ $A = 24$

1 2 3

3×10 3 $\frac{3}{4}$

complete Arkansas practice rounds

Three 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!

Three focused rounds using river-valley review habits

This book gives you three 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 three-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?

Three ATLAS tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
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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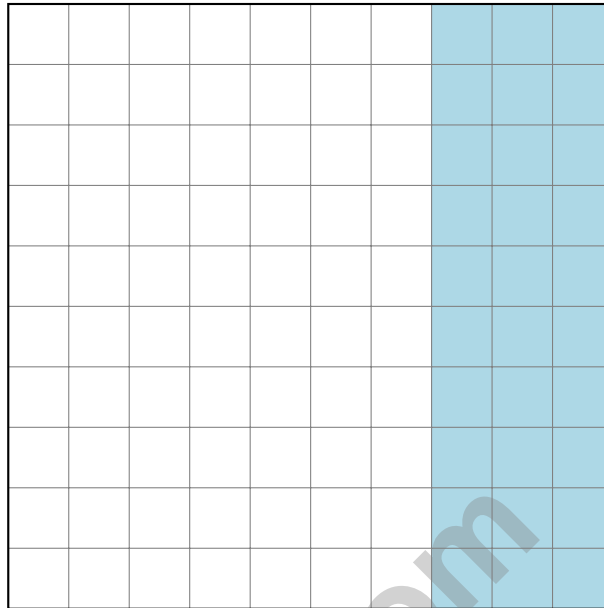
1)

Age (years)	Height (inches)
8	50
10	55
12	60

The table shows a student's age and height. If the pattern continues, what would be the height at age 14?

- A. 62 inches C. 65 inches
 B. 64 inches D. 70 inches
- 2) Order these decimals from greatest to least: 0.38, 0.8, 0.308, 0.83
- A. 0.83, 0.8, 0.38, 0.308 C. 0.308, 0.38, 0.8, 0.83
 B. 0.8, 0.83, 0.308, 0.38 D. 0.308, 0.38, 0.83, 0.8
- 3) Solve for x : $x - 6 = 10$
- A. $x = 4$ C. $x = 60$
 B. $x = 16$ D. $x = 0.6$
- 4) Which phrase is **not** equivalent to the inequality $x > 10$?
- A. x is greater than 10 C. x exceeds 10
 B. x is more than 10 D. x is at least 10
- 5) A student is making a trail mix with a ratio of 4:3 (nuts to dried fruit). If the graph has nuts on the x -axis and dried fruit on the y -axis, which point represents a mixture with 12 cups of nuts?
- A. (12, 8) C. (12, 12)
 B. (12, 9) D. (12, 16)





6)

What fraction is shaded?

A. $\frac{3}{10}$
 B. $\frac{3}{100}$

C. $\frac{30}{70}$
 D. $\frac{30}{100}$

7) A house is insured for \$300,000. The insurance company charges a 0.5% annual premium. What is the annual premium?

A. \$150

C. \$3,000

B. \$1,500

D. \$15,000

8) A clothing store stocks shirts and pants in a 3 : 2 ratio. If the store has 24 shirts, how many pants does it have?



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& answers

9) Complete the ratio table:

Left	3	?	15
Right	7	14	?

What are the missing values?

- A. 6 and 30 C. 9 and 35
 B. 6 and 35 D. 10 and 35
- 10) A garden hose is 35 meters long. How many centimeters is this? (Use 1 meter = 100 centimeters.)
- A. 350 cm C. 35,000 cm
 B. 3,500 cm D. 0.35 cm
- 11) A factory packages 480 items in 8 boxes. What is the unit rate in items per box?

- 12) Preston has: a bike worth \$250, a phone worth \$400, cash savings of \$150, and a debt of \$200 (money owed). What is his net worth?
- A. \$400 C. \$800
 B. \$600 D. \$1000



1) A grocery store has two options for buying apples:

- Option A: 6 apples for \$4.80
- Option B: 8 apples for \$6.40

Which option has the lower unit price per apple?

- A. Both options cost the same per apple
- B. Option A has the lower unit price
- C. Option B has the lower unit price
- D. It is impossible to compare without more information

2) On a number line, point A is at -3 and point B is at 4 . What is the distance between the two points?

3) A point is located on the negative x -axis. What is its y -coordinate?

4) Which value is least: $\frac{1}{2}$, -1.5 , 0.5 , or $-\frac{1}{2}$?



5) A storage box has dimensions $2\frac{1}{2}$ m by $1\frac{1}{2}$ m by 2 m. Find its volume.

A. 6 m^3

B. 7.5 m^3

C. 9 m^3

D. 12.5 m^3

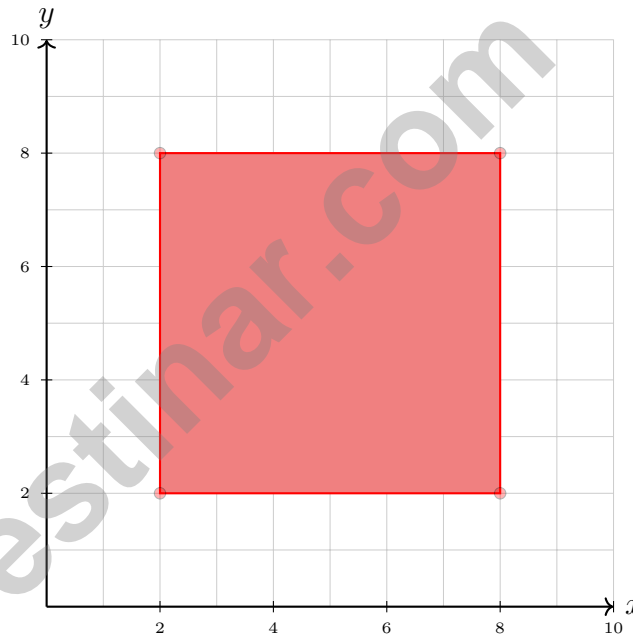
6) A rectangle has area 35 square units. One dimension is 7 units. What is the perimeter?

A. 18 units

B. 32 units

C. 28 units

D. 24 units



7)

A square is drawn on the coordinate plane with vertices at (2, 2), (8, 2), (8, 8), and (2, 8). What is its area?

A. 24 square units

B. 30 square units

C. 48 square units

D. 36 square units



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& 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.



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Arkansas Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.ALG.7)** Look at the pattern: every time age goes up by 2 years, height goes up by 5 inches. From age 12 (60 inches) to age 14, that's 2 more years, so add 5 more inches: $60 + 5 = 65$ inches.
- 2) **Choice A is correct.** **(6.NCC.10)** Compare: $0.83 = 0.830 > 0.800 > 0.380 > 0.308$. Order from greatest to least: 0.83, 0.8, 0.38, 0.308.
- 3) **Choice B is correct.** **(6.ALG.6)** Add 6 to both sides: $x = 10 + 6 = 16$.
- 4) **Choice D is correct.** **(6.NCC.12)** "At least 10" means $x \geq 10$, which includes the value 10. But $x > 10$ excludes 10, so D is not equivalent.
- 5) **Choice B is correct.** **(6.PR.4)** The ratio is nuts:dried fruit = 4:3. If nuts = 12, then $12 \div 4 = 3$, so dried fruit = $3 \times 3 = 9$. The point is (12, 9).
- 6) **Choice A is correct.** **(6.PR.5)** There are 30 shaded squares out of 100: $\frac{30}{100} = \frac{3}{10}$.
- 7) **Choice B is correct.** **(6.PR.5)** 0.5% of \$300,000 = $0.005 \times 300,000 = \$1,500$.
- 8) **The correct answer is 16.** **(6.PR.1)** Shirts are the 3-part amount. Since $24 \div 3 = 8$, each part is 8, and pants are 2 parts: $2 \times 8 = 16$.
- 9) **Choice B is correct.** **(6.NCC.2)** Ratio is 3 : 7. Second column: Right = 14 means Left = $14 \div 7 \times 3 = 6$. Third column: Left = 15 means Right = $15 \div 3 \times 7 = 35$.
- 10) **Choice B is correct.** **(6.GM.7)** Multiply: $35 \times 100 = 3500$ cm.
- 11) **The correct answer is 60 items per box.** **(6.PR.3)** Divide total items by number of boxes: $480 \div 8 = 60$ items per box.
- 12) **Choice B is correct.** **(6.PR.4)** Assets: $\$250 + \$400 + \$150 = \800 . Net worth: $\$800 - \$200 = \$600$.
- 13) **Choice C is correct.** **(6.PR.2)** The constant speed is $\frac{45 \text{ miles}}{3 \text{ hours}} = 15$ mph. In 5 hours: distance = $15 \times 5 = 75$ miles.
- 14) **Choice C is correct.** **(6.SP.1)** Total savings: $\$12 \times 6 = \72 .
- 15) **The correct answer is \$405.** **(6.PR.5)** Unit rate: $\$360 \div 40 = \9 per hour. Total hours: $40 + 5 = 45$ hours. Total earnings: $45 \times \$9 = \405 .
- 16) **Choice D is correct.** **(6.PR.4)** Multiply: $12 \times 5 = 60$ feet.
- 17) **Choice B is correct.** **(6.NCC.7)** $\frac{8}{9} \times \frac{5}{4} = \frac{40}{36} = \frac{10}{9}$.
- 18) **Choice A is correct.** **(6.NCC.10)** $6,435 \div 33 = 195$. Check: $33 \times 195 = 6,435$.
- 19) **Choice A is correct.** **(6.NCC.12, 6.NCC.13, 6.NCC.11)** Following the tree: $60 = 6 \times 10 = (2 \times 3) \times (2 \times 5) = 2 \times 2 \times 3 \times 5 = 2^2 \times 3 \times 5$.
- 20) **Choice A is correct.** **(6.NCC.13)** Distributive property: $4(7 + 8) = 4 \cdot 7 + 4 \cdot 8 = 28 + 32 = 60$. Choice A shows the expanded form.
- 21) **Choice D is correct.** **(6.NCC.1)** Distance from zero determines how close a number is. $|-1| = 1$, which is the smallest distance among the choices. Numbers closer to zero have smaller absolute values.
- 22) **The correct answer is 4 : 6 = 2 : 3 (dividing by 2) and 4 : 6 = 8 : 12 (multiplying by 2).** **(6.PR.3)** Nice checking: Choice A works because 4 : 6 simplifies to 2 : 3, and Choice B works because multiplying both parts of 4 : 6 by 2 gives 8 : 12. The other choices change the relationship.
- 23) **Choice D is correct.** **(6.SP.7)** Both $|9| = 9$ and $|-9| = 9$, so x could be either value.
- 24) **Choice B is correct.** **(6.NCC.2)** -2.25 is exactly halfway between -2.5 and -2 , found by: $\frac{-2.5 + (-2)}{2} = -2.25$.
- 25) **Choice A is correct.** **(6.GM.4)** From the graph, point L (upper point) is located at $(-2, 3)$. Its reflection L' across the x -axis is at $(-2, -3)$.
- 26) **Choice A is correct.** **(6.NCC.3)** $A = -0.5$ and $B = 2.5$. Since $-0.5 < 2.5$, we have $A < B$.



Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 3 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 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:

- 3 Full-Length Printed Tests
 - 2 Online Practice Tests
-  Detailed Answer Explanations

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

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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.

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- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ 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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