

10 Arkansas ATLAS

GRADE
6
MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



10 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



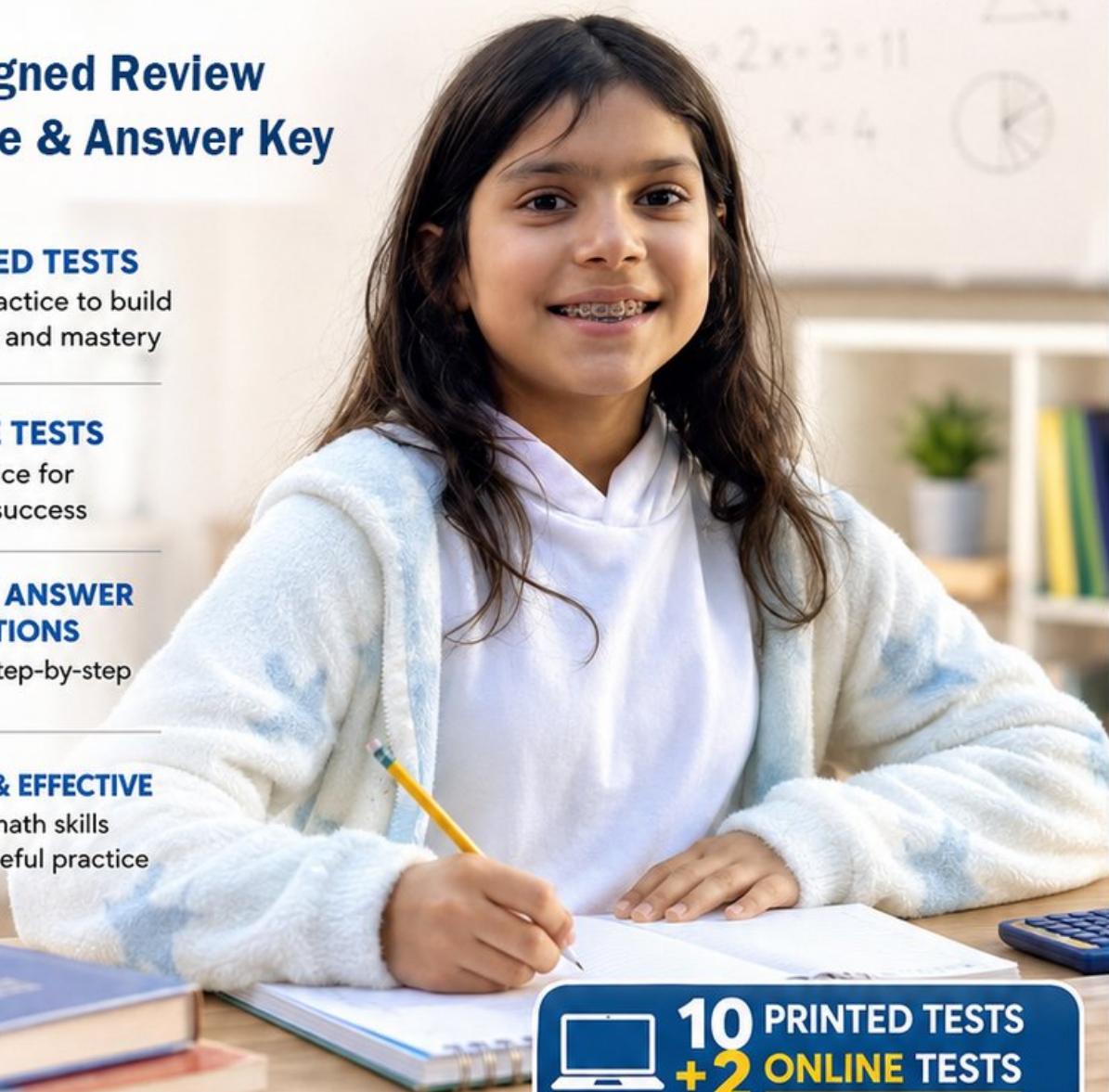
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



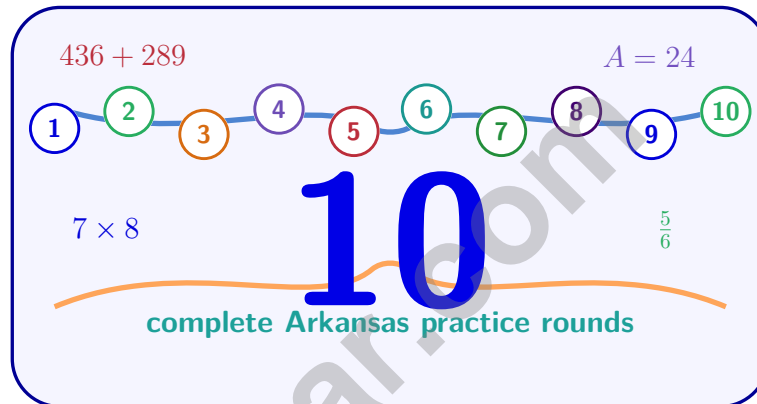
10 PRINTED TESTS
+ 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 Arkansas ATLAS Grade 6 Math Practice Tests

Standards-Aligned Steady Trail-Guide Reasoning for Arkansas Teaching & Learning Assessment System



Ten complete 40-question Grade 6 practice rounds for ATLAS, with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Welcome, Arkansas Math Explorer!

Ten steady rounds on a Natural State skills trail

This book gives you ten full Grade 6 practice tests for ATLAS. Each round uses Ozark paths, river valleys, and classroom discoveries 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

Mark the known facts, then decide what the question still needs. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for steady trail-guide reasoning

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Arkansas review rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten ATLAS tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up 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	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final Arkansas round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Steady trail-guide reasoning means recognizing the skill even when the next question changes topic.



Scan me!
For more practice
& answers

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1) Which decimal is equivalent to 37.5%?

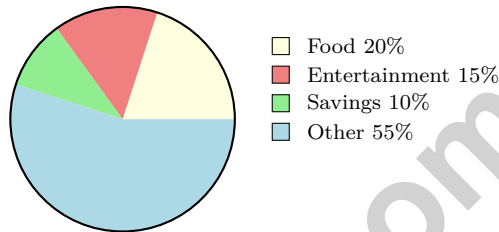
A. 0.0375

C. 3.75

B. 0.375

D. 37.5

2) Tyrone earns \$80 per week. His budget allocates 20% for food, 15% for entertainment, and 10% for savings. How much does he spend on food?



A. \$16

C. \$8

B. \$12

D. \$20

3) A model car is 8 cm long. The scale is 1 cm = 2 meters. How long is the actual car?

A. 8 meters

C. 20 meters

B. 10 meters

D. 16 meters

4) In a family budget, the ratio of expenses for Food to Rent is 2 : 5. If Food costs \$300 per month, how much is Rent?

A. \$600

C. \$1000

B. \$1200

D. \$750

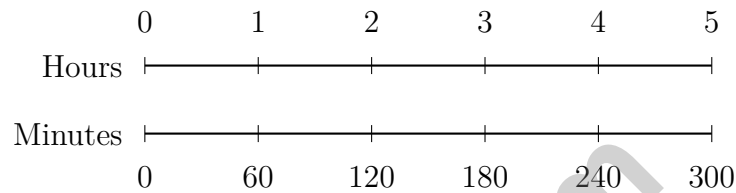


- 5) A bank account shows a balance of $-\$42$. What does this mean?
- A. The account has \$42 in it C. The account earned \$42 in interest
 B. The account has zero dollars D. The account is overdrawn by \$42
- 6) In the stem-and-leaf plot above (Question 8), how many scores are in the 70s?
- A. 3 C. 5
 B. 4 D. 6
- 7) Which characteristic is MOST important when deciding to use a dot plot instead of a histogram?
- A. You need to show the median only C. The dataset is large (over 100 points)
 B. The dataset is small and you want to see each value D. The data represents categories, not numbers
- 8) At a campfire, the ratio of hot dogs to hamburgers is $7 : 5$. Which of the following could be the total number of hot dogs and hamburgers combined at the campfire?
- A. 10 items C. 24 items
 B. 20 items D. 30 items
- 9) Which pair of ratios are equivalent?
- A. $2 : 3$ and $4 : 6$ C. $2 : 3$ and $4 : 9$
 B. $2 : 3$ and $3 : 6$ D. $2 : 3$ and $6 : 8$



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- 10) A rectangle has vertices at $(1, 1)$, $(10, 1)$, $(10, 4)$, and $(1, 4)$. What is the perimeter of this rectangle?

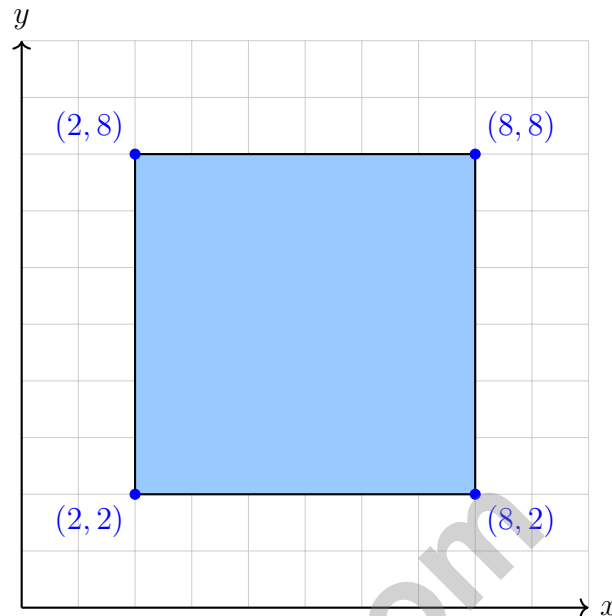


11)

Based on the double number line, what is the rate in minutes per hour?

- A. 30 minutes per hour C. 90 minutes per hour
 B. 60 minutes per hour D. 150 minutes per hour
- 12) An online grocery store sells canned beans. 9 cans cost \$5.40. What is the unit price per can?
- A. \$0.50 per can C. \$0.70 per can
 B. \$0.60 per can D. \$1.00 per can





3)

What is the area of this square?

- A. 24 square units C. 36 square units
 B. 32 square units D. 48 square units

4) Which question BEST represents the core concept of a statistical question?

**A statistical question expects variability
and is answered by collecting data
from multiple sources.**

Which example matches this definition?

- A. What time does the bus arrive at school?
 B. What is the name of my best friend?
 C. How many days are in a week?
 D. How many siblings do students in my grade have?



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1) A number has an absolute value of 6. Which integer could it be?

- A. Only 6
 B. Only -6
 C. Neither; 6 has no absolute value
 D. Either 6 or -6

2) A gym membership cost follows the pattern shown in the table. How much would 8 months of membership cost?

Months	Cost (\$)
2	50
8	?

3) A ratio table shows time in minutes on the x-axis and calories burned on the y-axis.

Time (min)	Calories
5	40
10	80
15	120

Which point is NOT on the ratio line if this relationship is graphed?

- A. (20, 160)
 B. (7, 56)
 C. (25, 190)
 D. (30, 240)



4) A store advertises "Buy 1, Get 1 at 50% Off." If one shirt costs \$40, what is the total cost for both shirts?

A. \$40

C. \$80

B. \$50

D. \$60

5) A cyclist travels 18 miles in 1.5 hours. What is the cyclist's speed in miles per hour?

A. 10 mph

C. 14 mph

B. 16 mph

D. 12 mph

6) A car rental company charges \$25 per day. What is the cost for 4 days?

7) A tape measure shows a width of 90 centimeters. How many millimeters is this? (Use 1 centimeter = 10 millimeters.)

A. 900 mm

C. 9,000 mm

B. 9 mm

D. 0.9 mm

8) On a coordinate plane, point A is at $(3, 4)$ and point B is at $(9, 4)$. If each unit represents 50 meters, what is the actual distance between A and B in meters?



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Arkansas ATLAS Practice Test Answer Keys

How to use this section with a Grade 6 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 B is correct.** **(6.PR.4)** $37.5\% = \frac{37.5}{100} = 0.375$.
- 2) **Choice A is correct.** **(6.GM.1)** Food budget is 20% of \$80: $0.20 \times 80 = \$16$.
- 3) **Choice D is correct.** **(6.NCC.12)** Use the scale: $8 \text{ cm} \times 2 \text{ m/cm} = 16 \text{ m}$.
- 4) **Choice D is correct.** **(6.SP.4)** If Food : Rent = 2 : 5 and Food = \$300, then $\frac{\$300}{\text{Rent}} = \frac{2}{5} \Rightarrow \text{Rent} = \frac{\$300 \times 5}{2} = \$750$.
- 5) **Choice D is correct.** **(6.SP.3)** A negative balance means the account owes money. An account balance of $-\$42$ means the account is overdrawn (or in debt) by \$42.
- 6) **Choice C is correct.** **(6.SP.3)** Stem 7 has leaves 1, 3, 4, 6, 9, which is 5 leaves total.
- 7) **Choice B is correct.** **(6.NCC.5)** Dot plots work best for small datasets where each individual value matters. Histograms are better for large datasets. Dot plots require numerical data, not categories.
- 8) **Choice C is correct.** **(6.NCC.5)** The ratio 7 : 5 means the total is $7 + 5 = 12$ parts. A valid total must be divisible by 12. Only 24 is divisible by 12 (since $24 \div 12 = 2$). So the total could be 24 items: 14 hot dogs and 10 hamburgers.
- 9) **Choice A is correct.** **(6.NCC.2)** Choice A works because $4 : 6$ simplifies to $2 : 3$ when both parts are divided by 2. The other pairs simplify to different ratios.
- 10) **The correct answer is 26.** **(6.ALG.3)** Length = $10 - 1 = 9$ units; width = $4 - 1 = 3$ units. Perimeter = $2(9 + 3) = 2(12) = 26$ units.
- 11) **Choice B is correct.** **(6.SP.9)** From the double number line, 1 hour equals 60 minutes. This is the standard conversion rate.
- 12) **Choice B is correct.** **(6.ALG.2)** $\$5.40 \div 9 = \0.60 per can.
- 13) **Choice A is correct.** **(6.GM.3)** The ratio is 5 : 3. When soybeans are 9 (multiply by 3), corn is $5 \times 3 = 15$ acres.
- 14) **Choice A is correct.** **(6.SP.5)** The unit rate is $\frac{45}{1} = 45$ miles per hour. Since the ratio is constant ($\frac{90}{2} = 45$, $\frac{135}{3} = 45$), the relationship is proportional. A proportional relationship through the origin has all ratios equal.
- 15) **Choice C is correct.** **(6.NCC.9)** $\frac{18}{40} = 0.45 = 45\%$.
- 16) **Choice D is correct.** **(6.NCC.10)** Triple the recipe: orange $2 \times 3 = 6$ cups, apple $3 \times 3 = 9$ cups, water $1 \times 3 = 3$ cups.
- 17) **Choice D is correct.** **(6.ALG.3)** Convert: 2 yards = $2 \times 36 = 72$ inches (since 1 yard = 36 inches). Add 6 inches: $72 + 6 = 78$ inches.
- 18) **Choice C is correct.** **(6.ALG.4)** For $y = \frac{2}{3}x$, when $x = 6$, $y = \frac{2}{3}(6) = 4$, so (6, 4) is on the line. The other points do not satisfy the equation: (2, 4) would need $y = \frac{4}{3}$, (3, 3) would need $y = 2$, and (6, 9) would need $y = 4$.
- 19) **Choice D is correct.** **(6.ALG.6)** If $\frac{2}{5}$ lap takes $\frac{1}{3}$ minute, one lap takes $\frac{1}{3} \div \frac{2}{5} = \frac{1}{3} \times \frac{5}{2} = \frac{5}{6}$ minute.
- 20) **Choice A is correct.** **(6.GM.6)** $4,896 \div 18 = 272$. Verify: $18 \times 272 = 4,896$.
- 21) **Choice A is correct.** **(6.NCC.3)** $6 \times 8 = 48$. We have $2 + 1 = 3$ decimal places total, so 0.048 is correct.
- 22) **The correct answer is The correct formula and calculation are** $A = \frac{1}{2}(9 + 11) \times 6 = \frac{1}{2}(20)(6) = 60 \text{ in}^2$. **(6.ALG.2)** Statements A and B are both correct. Statement C is wrong because height is also needed. Statement D is wrong because height is a perpendicular distance, not the sum of the bases. Statement E gives 120 in^2 , which is incorrect.
- 23) **Choice A is correct.** **(6.GM.1)** Multiples of 10: 10, 20, 30, 40, ... Multiples of 15: 15, 30, 45, ... The least common multiple is 30.
- 24) **Choice C is correct.** **(6.GM.5)** Find GCF(54, 72). Factors of 54: 1, 2, 3, 6, 9, 18, 27, 54. Factors of 72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72. GCF is 18. Each student gets 3 pencils and 4 erasers.
- 25) **Choice D is correct.** **(6.PR.1)** Opposites have equal absolute values. $|-8| = 8$ and $|8| = 8$, so $8 + 8 = 16$.
- 26) **Choice D is correct.** **(6.SP.2)** The point in Quadrant III (lower left) has both negative coordinates. The point $(-3, -4)$ fits this description.
- 27) **Choice D is correct.** **(6.SP.8)** The lowest elevation is the most negative: $-120 < -50 < 0 < 800$. Canyon at -120 m is lowest.



Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen 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



**CONFIDENCE TODAY.
SUCCESS 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.



Deepen 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.



10 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS