

# 5

# Arkansas ATLAS

## GRADE 6 MATH PRACTICE TESTS

Standards Aligned Problem Solving  
For Comprehensive Assessment Programs



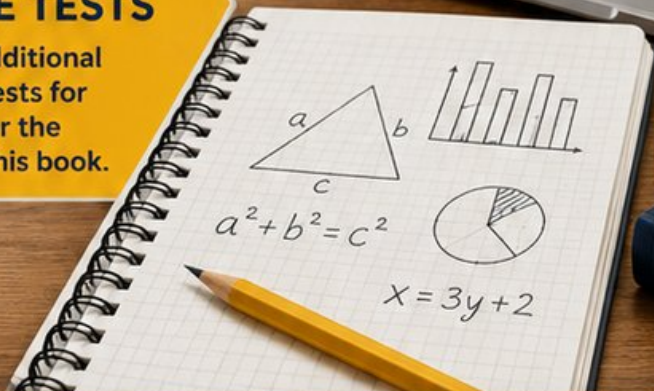
### 5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



### + 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



# 5 Arkansas ATLAS Grade 6 Math Practice Tests

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



Five 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 five 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 five-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 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	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.



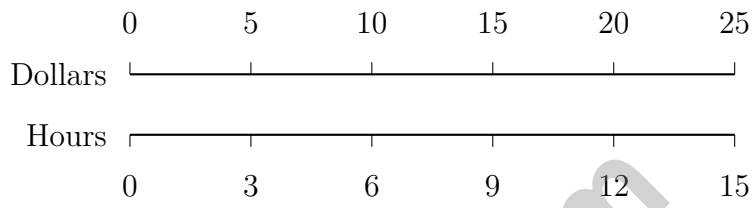
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1) The histogram of student test scores shows a peak on the left side with a long tail to the right. What is the shape?

- A. Skewed left
- B. Bimodal
- C. Symmetric
- D. Skewed right



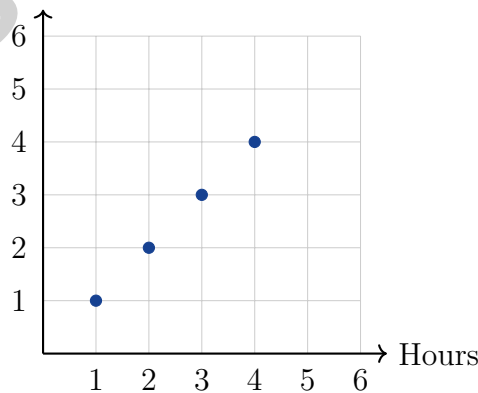
2)

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

- A.  $\frac{5}{3}$  dollars per hour
- B.  $\frac{3}{5}$  dollars per hour
- C. 5 dollars per hour
- D. 15 dollars per hour

3) The coordinate plane shows ordered pairs representing the ratio of hours worked to dollars earned. Based on the graph, how much is earned per hour?

Dollars (each tick = \$10)



- A. \$1 per hour
- B. \$5 per hour
- C. \$10 per hour
- D. \$20 per hour





- 8) A bag contains 9 marbles. If the probability of drawing a green marble is  $\frac{1}{3}$ , how many green marbles are in the bag?

- 9) A student claims: "If the ratio of apples to oranges is 7 : 3, then the ratio of oranges to apples must be 3 : 7."

Is this claim correct?

- A. No, the ratio cannot be reversed.
- B. No, the order does not matter, so both must be 7 : 3.
- C. No, the ratio of oranges to apples should be 7 : 3 as well.
- D. Yes, when the order is reversed, the parts of the ratio are reversed in the same way.
- 10) A garden hose fills a tank at a rate of 8 gallons per minute. How many gallons are in the tank after 5.5 minutes?
- A. 40 gallons
- B. 44 gallons
- C. 48 gallons
- D. 52 gallons



- 1) A clothing store sells sweaters and t-shirts in a 2 : 5 ratio. If the store has 10 sweaters, how many t-shirts does it have?

Sweaters	T-Shirts
2	5
4	10
10	?

- A. 20                       C. 25  
 B. 22                       D. 28
- 2) A histogram shows weights of 20 students. The shape is roughly symmetric. Which summary best describes the center?
- A. The mean, because symmetric data has mean  $\approx$  median.       C. The mode, because it is the most common value.  
 B. The median, because it is resistant to outliers.       D. The range, because it spans the entire data.
- 3) A bag of letter tiles contains 5 A's, 3 E's, and 2 I's. If one tile is drawn at random, what is the probability that it is **not** an A?
- A.  $\frac{1}{10}$                        C.  $\frac{3}{5}$   
 B.  $\frac{1}{2}$                        D.  $\frac{5}{10}$



4) In a stem-and-leaf plot, the stem represents the \_\_\_\_\_ and the leaf represents the \_\_\_\_\_.

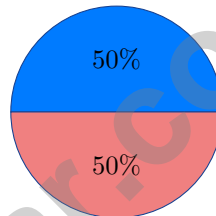
A. ones, tens

B. tens, ones

C. hundreds, tens

D. thousands, hundreds

5) Compute  $-18 \div (-3)$ .



6)

A music store polled 200 customers about preferred instruments. If the circle graph shows 50% prefer guitar, how many customers prefer guitar?

A. 100

B. 75

C. 50

D. 150

7) Which statement about a misleading graph is TRUE?

A. The data is always incorrect

B. Misleading graphs always have negative intent

C. All bar graphs are inherently misleading

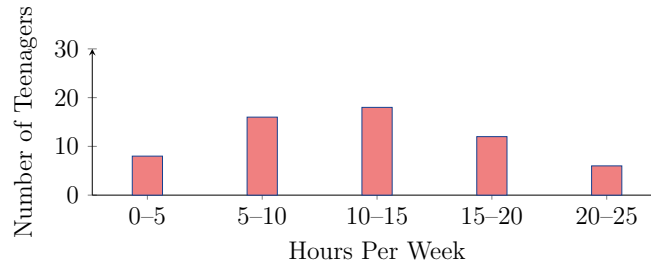
D. The visual display exaggerates or downplays differences



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- 5) The histogram shows the number of hours per week teenagers spend on social media. How many teenagers spend between 5 and 15 hours per week?



- A. 16 teenagers
  B. 34 teenagers
  C. 42 teenagers
  D. 50 teenagers
- 6) The maximum capacity is 4,000 gallons. What is the greatest allowed number of gallons?

- 7) A dataset has a mean of 50 and a median of 48. Which statement is most likely true?
- A. The data is symmetric with no outliers.
  B. There are some large values pulling the mean higher than the median.
  C. There are some small values pulling the mean lower than the median.
  D. The range must be less than 10.



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

### Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.SP.4)** The peak on the left with a tail extending right indicates a right-skewed distribution, where a few high scores pull the distribution to the right.
- 2) **Choice A is correct.** **(6.PR.3)** From the double number line, 3 hours corresponds to 5 dollars. The rate is  $5 \div 3 = \frac{5}{3}$  dollars per hour.
- 3) **Choice C is correct.** **(6.PR.4)** Look at the y-axis label: each tick on the dollars axis stands for \$10. The point (1, 1) means 1 hour and  $1 \times 10 = \$10$ , so the rate is \$10 per hour.
- 4) **Choice D is correct.** **(6.PR.5)**  $40\% \text{ of } 300 = 0.40 \times 300 = 120$  votes.
- 5) **Choice B is correct.** **(6.SP.1)** Remainder:  $100\% - 40\% - 35\% - 15\% = 10\%$  of  $\$360 = 0.10 \times 360 = \$36$ .
- 6) **Choice B is correct.** **(6.SP.3)** For set B: Mean =  $\frac{2 + 4 + 6 + 8 + 10}{5} = 6$ , Median = 6. The symmetric distribution makes them equal.
- 7) **Choice D is correct.** **(6.PR.3)** Do not compare wins to losses here; the question asks for wins to total games. The total is  $12 + 4 = 16$ , and  $12 : 16$  simplifies to  $3 : 4$ .
- 8) **The correct answer is 3.** **(6.NCC.5)** Number of green marbles =  $\frac{1}{3} \times 9 = 3$ .
- 9) **Choice D is correct.** **(6.PR.1)** Yes. If apples to oranges is  $7 : 3$ , then reversing the order to oranges to apples also reverses the numbers, giving  $3 : 7$ .
- 10) **Choice B is correct.** **(6.PR.5)**  $8 \text{ gal/min} \times 5.5 \text{ min} = 44$  gallons.
- 11) **Choice C is correct.** **(6.PR.4)** Row A:  $5 : 7$  (correct). Row B:  $10 : 14 = 5 : 7$  (divide by 2, correct). Row C:  $15 : 20 = 3 : 4$  (not  $5 : 7$ , incorrect). Row D:  $20 : 28 = 5 : 7$  (divide by 4, correct).
- 12) **Choice B is correct.** **(6.PR.5)**  $\frac{27}{30} = 0.9 = 90\%$ .
- 13) **Choice D is correct.** **(6.NCC.2)** Ratio  $7 : 4$  with width 20 cm: each part is  $20 \div 4 = 5$  cm. Length is  $7 \times 5 = 35$  cm.
- 14) **Choice D is correct.** **(6.GM.7)** Multiply:  $5 \times 8 = 40$  fl oz.
- 15) **Choice A is correct.** **(6.PR.4)** With only \$300 and needing \$800, Sophia should save more money first. Using a debit card would overdraw her account (negative balance), and using credit card debt for a purchase like this is not recommended at this grade level.
- 16) **Choice A is correct.** **(6.PR.2)** The equation  $y = 7x$  represents a proportional relationship with constant of proportionality  $k = 7$ . The graph passes through the origin.
- 17) **The correct answer is 22.** **(6.SP.2)** Range = Max - Min =  $44 - 22 = 22$ .
- 18) **Choice A is correct.** **(6.PR.4)** A smaller scale factor (fewer feet per inch) means the drawing must be larger to represent the same object. Scale A represents fewer feet per inch, so the drawing is larger.
- 19) **Choice C is correct.** **(6.NCC.7)**  $1\frac{1}{3} = \frac{4}{3}$ , so  $\frac{4}{3} \div \frac{2}{5} = \frac{4}{3} \times \frac{5}{2} = \frac{20}{6} = \frac{10}{3} = 3\frac{1}{3}$ .
- 20) **The correct answer is 108.** **(6.NCC.5)**  $14.4\% \text{ of } 750 = 0.144 \times 750 = 108$  pastries.
- 21) **The correct answer is IQR and middle 50%.** **(6.SP.3)** (A)  $IQR = Q3 - Q1 = 45 - 20 = 25$ . (D) By definition, the middle 50% of data falls between  $Q1$  and  $Q3$ . (B) is false because the box plot is not definitely symmetric. (C) is false because the range is  $80 - 10 = 70$ , not 75. (E) is false because  $30 - 20 = 10$  while  $45 - 30 = 15$ , showing asymmetry.
- 22) **Choice D is correct.** **(6.NCC.10)**  $6,750 \div 25 = 270$ . Check:  $25 \times 270 = 6,750$ .
- 23) **Choice B is correct.** **(6.NCC.12, 6.NCC.13, 6.NCC.11)** Factors of 15: 1, 3, 5, 15. Factors of 35: 1, 5, 7, 35. Common factors: 1, 5. GCF is 5. Distractors: 3 divides 15 only; 7 divides 35 only; 15 is the largest number but not the GCF.
- 24) **The correct answer is 16.** **(6.SP.8)** Range is maximum minus minimum:  $94 - 78 = 16$ .



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## Ahoy, Math Sailor!

◇ You sailed through 5 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

### Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

**Captain's tip:** on test day, sail steady. Trust the map you built through 5 practice tests. You will reach safe harbor!

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 Captain

# PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



#### BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



#### IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



#### ACHIEVE SUCCESS

Consistent practice leads to greater results.

## WHAT'S INSIDE?



#### 5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



#### Realistic Questions

A variety of question types to strengthen problem-solving skills.



#### Answer Keys & Explanations

Detailed solutions to help students learn and improve.



#### Performance Tracking

Track progress and identify areas that need improvement.



#### Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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