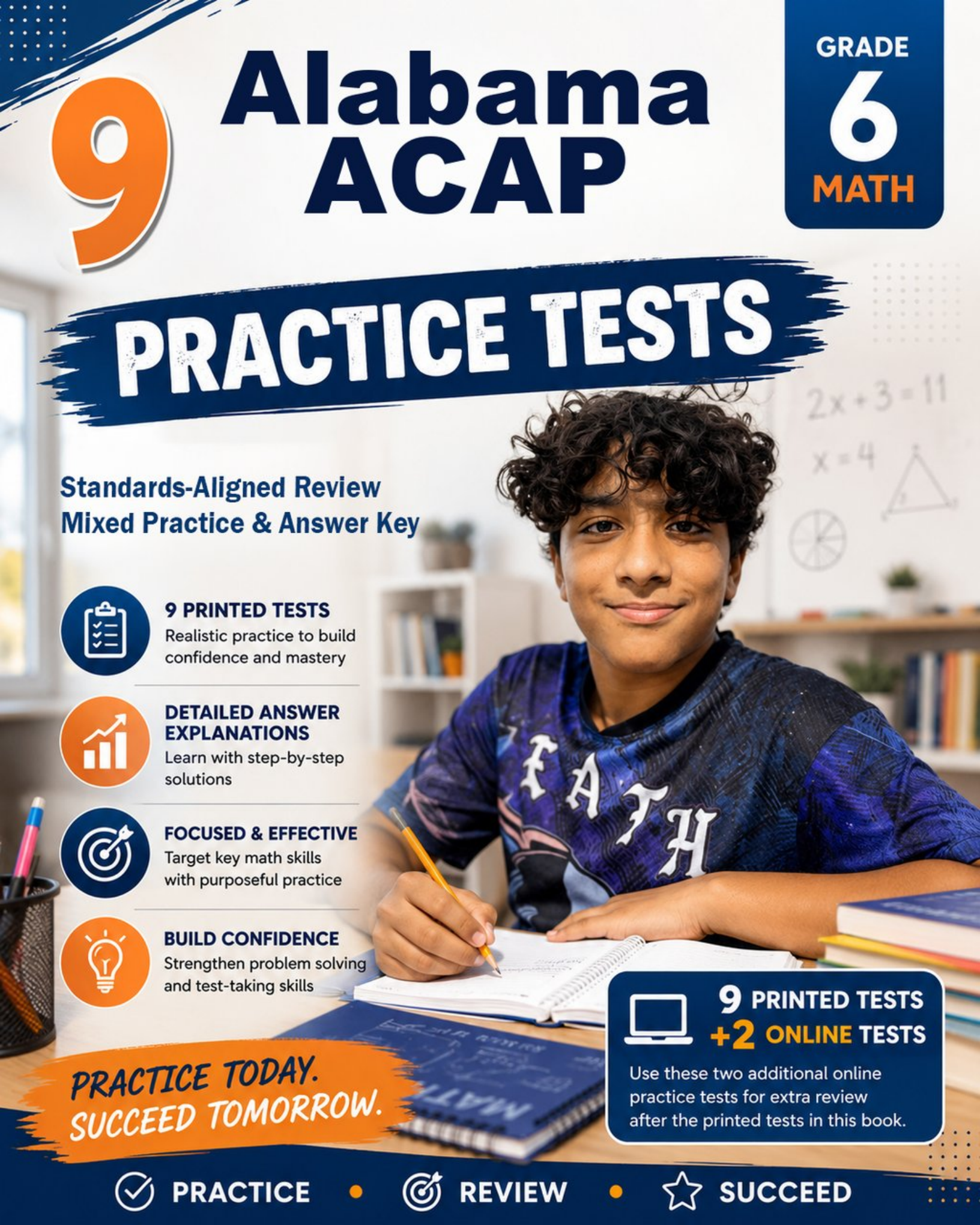
9 Alabama ACAP

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 Alabama ACAP Grade 6 Math Practice Tests

Standards-Aligned Steady Southern Problem Solving for Alabama Comprehensive Assessment Program

Nine complete 40-question Grade 6 practice rounds for ACAP, 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, Alabama Math Explorer!

Nine steady rounds on a Gulf Coast-to-hills math trail

This book gives you nine full Grade 6 practice tests for ACAP. Each round uses river bridges, pine woods, and Gulf Coast routes as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Alabama Practice Promise

Read the question like a map, then prove each step. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

How to Use This Book

A nine-session routine for steady Southern problem solving

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.

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

What Is Inside?

Nine ACAP tests, 360 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	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. Steady southern problem solving means recognizing the skill even when the next question changes topic.

Table of Contents

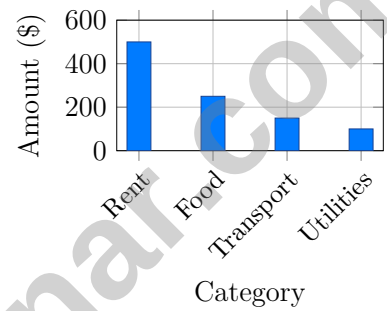
1) Evaluate: $18 \div 3 + 4^2$

☐ A. 16
☐ B. 22
☐ C. 26
☐ D. 30

2) In a class of 30 students, 18 play soccer. What is the ratio of soccer players to non-soccer players?

☐ A. 18 : 30
☐ B. 18 : 12
☐ C. 3 : 2
☐ D. 2 : 3

3)



The bar chart shows a household budget. What is the total budget?

☐ A. $800
☐ B. $1000
☐ C. $1200
☐ D. $1400

4) A student uses a scale drawing where 1 inch = 4 feet. She measures a desk as 3 inches in the drawing. She says the actual desk is $\frac{3}{4}$ feet long. Which is the student's error?

☐ A. The units are wrong; she should say inches, not feet.
☐ B. She divided instead of multiplied; the actual length is 12 feet.
☐ C. She used the scale backward; the actual length is 12 inches.
☐ D. The measurement of 3 inches is wrong.

5) The opposite of the opposite of 8 is:

☐ A. 8
☐ B. −8
☐ C. 0
☐ D. 16

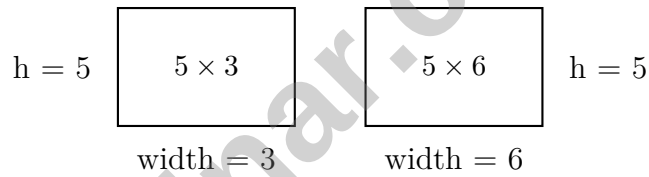
6) Divide 4,896 by 18.

☐ A. 272
☐ B. 280
☐ C. 276
☐ D. 284

7) Compute: $10.5 - 4.75 + 2.1$

☐ A. 16.35
☐ B. 8.15
☐ C. 7.75
☐ D. 7.85

8) Which expression represents the total area of the two rectangles shown?

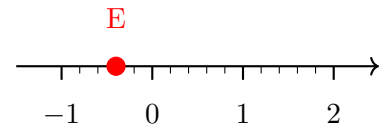


☐ A. $(5+3)(5+6)$
☐ B. $5(3+6)$
☐ C. $3+5+6+5$
☐ D. $5+3+5+6$

9) Which list of integers is in order from least to greatest?

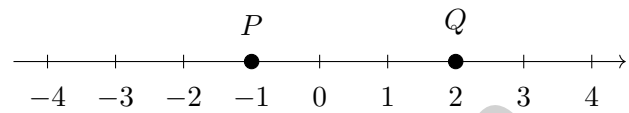
☐ A. $-4, -1, 0, 2$
☐ B. $2, 0, -1, -4$
☐ C. $-1, -4, 0, 2$
☐ D. $0, -1, -4, 2$

10) The number line below has tick marks at fifths. What is the coordinate of point E?



☐ A. $-\frac{3}{5}$
☐ B. $\frac{1}{5}$
☐ C. $-\frac{1}{5}$
☐ D. $-\frac{2}{5}$

11)



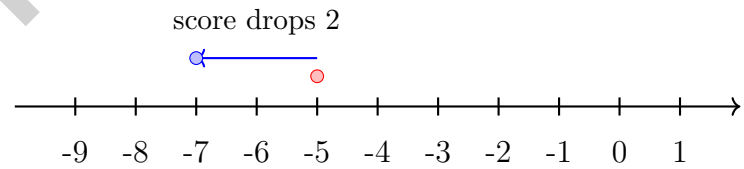
What is the relationship between points P and Q?

☐ A. $P > Q$
☐ B. P is 3 units greater
☐ C. $P = Q$
☐ D. $P < Q$

12) Two points are at $(-6, -2)$ and $(3, -2)$. What is the distance?

☐ A. 6 units
☐ B. 7 units
☐ C. 8 units
☐ D. 9 units

13) A golf player has a score of -5 (5 under par). She then plays another hole and her score drops by 2 more strokes. What is her new total score?



☐ A. -7
☐ B. -3
☐ C. 3
☐ D. 7

1) Evaluate $100 - 6t$ when $t = 10$.

☐ A. 40
☐ B. 60
☐ C. 94
☐ D. 160

2) In the expression $5x + 3 + 2x - 1$, after combining like terms, what is the coefficient of x?

☐ A. 5
☐ B. 2
☐ C. 7
☐ D. 3

3)

A right triangle has vertices at $(1, 1)$, $(13, 1)$, and $(1, 7)$. What is its area in square units?

☐ A. 36 square units
☐ B. 40 square units
☐ C. 44 square units
☐ D. 48 square units

4) A student incorrectly computed $4.2 \times 0.5 = 2.10$ instead of 2.1. Which statement is true?

☐ A. The student made an error; trailing zeros should be removed.
☐ B. Both answers are equivalent in value.
☐ C. The decimal point is in the wrong place.
☐ D. The student forgot to multiply.

5) A snack mix uses raisins and pretzels in the ratio $3 : 5$. If you use 15 cups of raisins, how many cups of pretzels should you use?

6) What is the GCF of 16 and 40?

☐ A. 2
☐ B. 4
☐ C. 16
☐ D. 8

7) Which integer is the opposite of -9?

☐ A. 0
☐ B. 18
☐ C. -9
☐ D. 9

8) Which fraction is greater than $-\frac{1}{2}$?

☐ A. $-\frac{3}{4}$
☐ B. -1
☐ C. $-\frac{1}{4}$
☐ D. -2

1) The ratio of length to width of a rectangle is 7 : 4. If the width is 20 cm, what is the length?

☐ A. 28 cm
☐ B. 30 cm
☐ C. 40 cm
☐ D. 35 cm

2) A histogram shows test scores with intervals: 60–69 (frequency 3), 70–79 (frequency 8), 80–89 (frequency 6), 90–99 (frequency 2).
What is the total number of students who took the test?

☐ A. 17
☐ B. 19
☐ C. 21
☐ D. 24

3) What is the area of a rectangle with length 9 units and width 6 units?

☐ A. 30 square units
☐ B. 45 square units
☐ C. 60 square units
☐ D. 54 square units

4) A coach asks: "What is the typical running speed of students on the track team?" Why is this a statistical question?

☐ A. Because running is an athletic activity.
☐ B. Because the coach is a teacher.
☐ C. Because the word "typical" is used.
☐ D. Because different team members run at different speeds, and data must be collected.

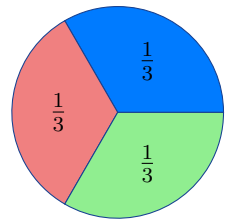
5) In a box plot, if the median is much closer to Q_1 than to Q_3, what does this suggest about the data?

☐ A. The data is symmetric.
☐ B. The data is skewed right (positively skewed).
☐ C. The data has no outliers.
☐ D. The data has equal numbers of values above and below the median.

6) A dot plot: $\{1, 2, 2, 3, 3, 3, 4, 5, 5, 6\}$. What is the IQR?

☐ A. 1.5
☐ B. 3
☐ C. 2.5
☐ D. 2

7)



A school has 450 students. The circle graph shows grade distribution. If $\frac{1}{3}$ are 6th graders, how many are 6th graders?

☐ A. 120
☐ B. 180
☐ C. 100
☐ D. 150

Alabama ACAP 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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice B is correct.** 6.14 Exponent first: $4^2 = 16$. Division next: $18 \div 3 = 6$. Finally add: $6 + 16 = 22$.
2) **Choice C is correct.** 6.3 Non-soccer players: $30 - 18 = 12$. Ratio $18 : 12$ simplifies to $3 : 2$ by dividing by 6.
3) **Choice B is correct.** 6.23 Total: $\$500 + \$250 + \$150 + \$100 = \$1000$.
4) **Choice B is correct.** 6.1 To find the actual length from a drawing length, multiply by the scale factor: 3 inches $\times$ 4 feet per inch = 12 feet. The student divided ($3 \div 4 = \frac{3}{4}$) instead of multiplying.
5) **Choice A is correct.** 6.13 Opposite of 8 is -8. Opposite of -8 is 8. Double opposites return to the original.
6) **Choice A is correct.** 6.5 $4{,}896 \div 18 = 272$. Verify: $18 \times 272 = 4{,}896$.
7) **Choice D is correct.** 6.6 Work left to right: $10.5 - 4.75 = 5.75$, then $5.75 + 2.1 = 7.85$.
8) **Choice B is correct.** 6.7 Each rectangle has height 5. The widths are 3 and 6. Total area $= 5\times3+5\times6 = 5(3+6) = 45$.
9) **Choice A is correct.** 6.9 To order integers from least to greatest, place the most negative number first, then move toward zero and positive numbers. The order is $-4 < -1 < 0 < 2$.
10) **Choice D is correct.** 6.10 Point E is two fifth-marks to the left of 0, which is $-\frac{2}{5}$ or -0.4.
11) **Choice D is correct.** 6.13 P is at -1 and Q is at 2. Since $-1 < 2$, point P is less than point Q.
12) **Choice D is correct.** 6.25 Same y-coordinate (-2): $|3 - (-6)| = |3 + 6| = 9$ units.
13) **Choice A is correct.** 6.13 Starting score: -5. Dropping 2 more means $-5 + (-2) = -7$.
14) **Choice C is correct.** 6.13 The ratio is flour:sugar $= 3 : 2$. If flour is f, then sugar $= f \times \frac{2}{3} = \frac{2f}{3}$.
15) **Choice D is correct.** 6.28 Box X: $V = 5 \times 2 \times 3 = 30$ ft^3. Box Y: $V = 4 \times 2 \times 4 = 32$ ft^3. Difference: $32 - 30 = 2$ ft^3, with Box Y being larger.
16) **The correct answer is** 120. 6.18 25% of $480 = 0.25 \times 480 = 120$ products were sold online.
17) **Choice B is correct.** 6.26 Radius $r = \frac{12}{2} = 6$ in. Area $= \pi r^2 \approx 3.14 \times 6^2 = 3.14 \times 36 = 113.04$ in^2.
18) **Choice B is correct.** 6.22 The data shows different responses (0, 5, 8, 10 hours), confirming variability. Recognizing and describing this variability is key to understanding statistical data.
19) **The correct answer is GCF of** 16 **and** 24 **is** 8**; prime factorization of** 40 **is** $2^3 \times 5$**.**. 6.8 Statement A: Factors of 16 are $1, 2, 4, 8, 16$ and factors of 24 are $1, 2, 3, 4, 6, 8, 12, 24$; the GCF is 8 (TRUE). Statement B: LCM of 5 and 7 is 35, not 12 (FALSE). Statement C: $40 = 8 \times 5 = 2^3 \times 5$ (TRUE). Statement D is missing factor 10. Statement E is false because the LCM of 6 and 10 is 30.
20) **Choice B is correct.** 6.23 The IQR focuses on the middle 50% of data and ignores extreme outliers, making it more robust than range when outliers are present.
21) **Choice D is correct.** 6.16 "The product of 5 and 3" is $5 \cdot 3 = 15$. "p increased by" that product is $p + 5 \cdot 3$.
22) **Choice B is correct.** 6.15 Substitute: $3(4) - 2(3) + 1 = 12 - 6 + 1 = 7$.
23) **Choice D is correct.** 6.8 "At most 3 hours" allows 3 hours and anything less: $h \leq 3$.
24) **Choice C is correct.** 6.13 The open circle at 5 indicates 5 is not included. The arrow points right (toward greater values), so $x > 5$.
25) **The correct answer is** 12. 6.3 Multiply: $\frac{3}{4}$ pound $\times$ 16 oz/pound = 12 ounces.
26) **The correct answer is** 60. 6.9 $I = \$500 \times 0.03 \times 4 = \$60$. To earn interest, we apply the principal, rate, and time to the formula.
27) **Choice C is correct.** 6.26 $A = \frac{1}{2} \times 19 \times 8 = 76$ cm^2.
28) **Choice D is correct.** 6.26 Side length: $8 - 2 = 6$ units. Area of square $= 6^2 = 36$ square units.
29) **Choice D is correct.** 6.23 This correctly describes the process for finding the median in both cases.
30) **Choice D is correct.** 6.24 The value 0.5 appears 3 times, which is more frequently than any other value, making it the mode.
31) **Choice A is correct.** 6.4 Probability of not liking ice cream $= 1 - 0.9 = 0.1$ or 10%.

Hi, Math Champion!

◇ You trained hard! 9 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.

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