

10

New Jersey NJSLA

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



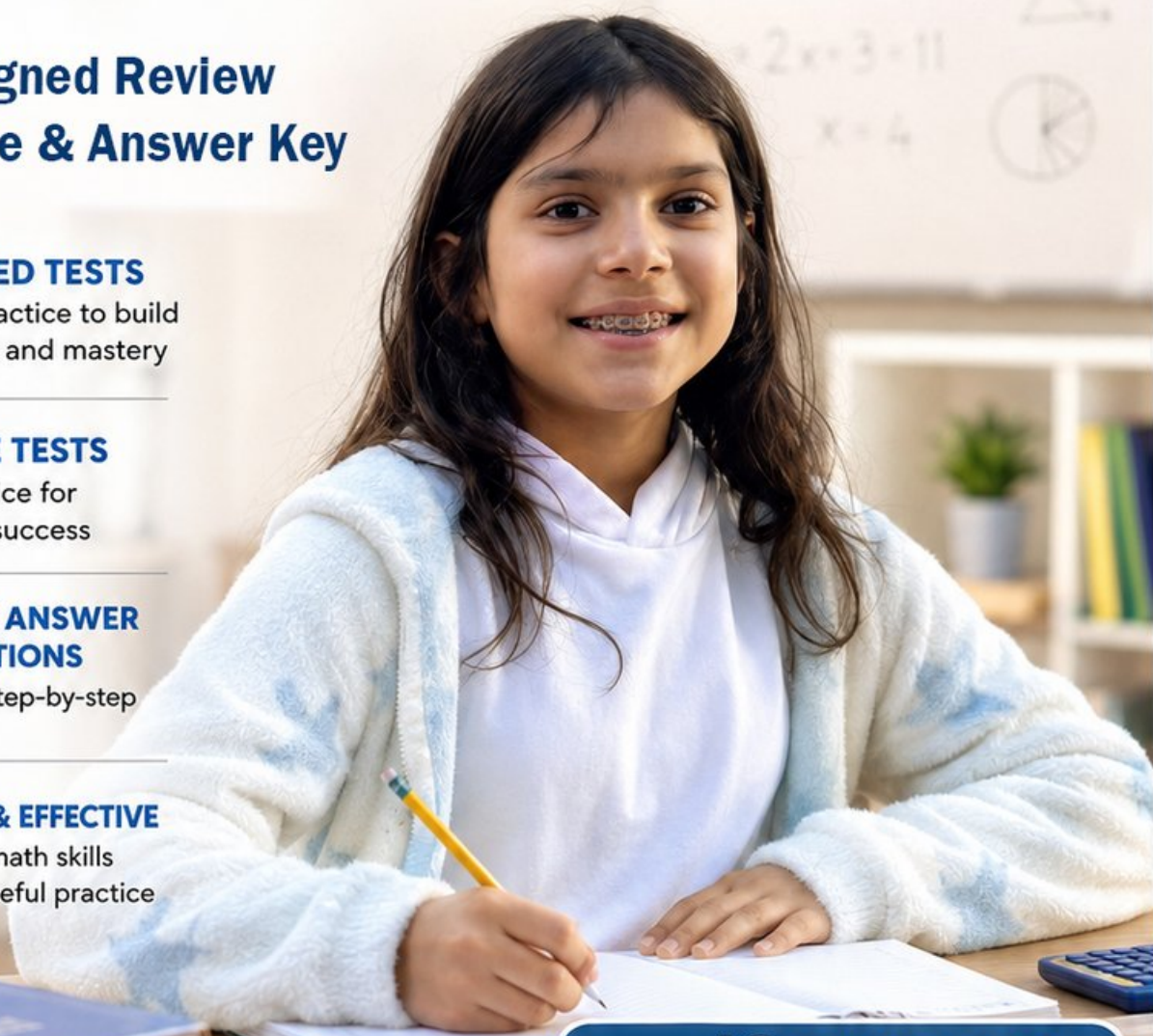
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



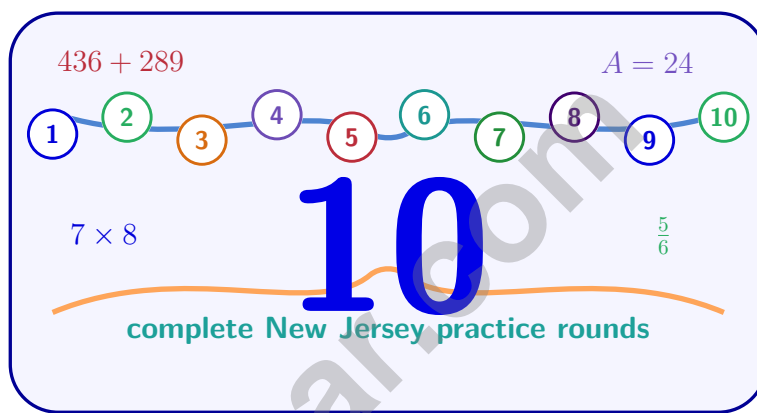
10 PRINTED TESTS
+ 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 New Jersey NJSLA Grade 6 Math Practice Tests

*Standards-Aligned Efficient, Accurate Reasoning for New Jersey Student Learning
Assessments*



Ten complete 40-question Grade 6 practice rounds for NJSLA, 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, New Jersey Math Explorer!

Ten steady rounds on a Garden State review route

This book gives you ten full Grade 6 practice tests for NJSLA. Each round uses shore roads, neighborhoods, and quick-but-careful thinking as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your New Jersey Practice Promise

Be quick only after the plan is clear. 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 efficient, accurate 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.

New Jersey 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 NJSLA 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 New Jersey 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. Efficient, accurate reasoning means recognizing the skill even when the next question changes topic.

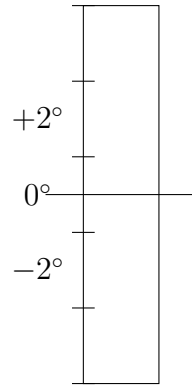


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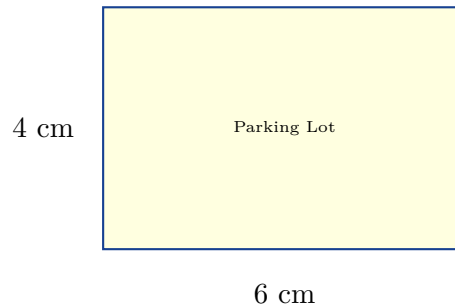
- 1) A temperature starts at -5°F . After one hour, it is 8°F . How much did the temperature increase?



- A. 13°F C. -13°F
 B. 3°F D. 8°F
- 2) A rectangle has vertices at $(1, 1)$, $(10, 1)$, $(10, 4)$, and $(1, 4)$. What is the perimeter of this rectangle?



- 3) A scale drawing of a rectangular parking lot is shown with dimensions labeled in centimeters. The scale is $1 \text{ cm} = 5 \text{ m}$.



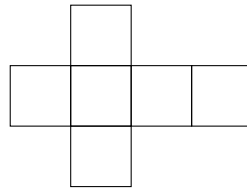
What is the actual area of the parking lot?

- A. 24 sq m
- B. 120 sq m
- C. 150 sq m
- D. 600 sq m
- 4) A sports team's record shows wins and losses in the ratio $4 : 1$. If the team has 4 losses, how many wins does it have?
- A. 1 win
- B. 4 wins
- C. 5 wins
- D. 16 wins
- 5) A recipe calls for \$12 worth of ingredients. The ingredients are on sale for 25% off. How much will the ingredients cost?
- A. \$3
- B. \$6
- C. \$9
- D. \$12
- 6) A jacket originally costs \$80. The store is offering a 25% discount. What is the sale price?
- A. \$55
- B. \$60
- C. \$65
- D. \$75



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4) Which shape is a valid net of a cube?

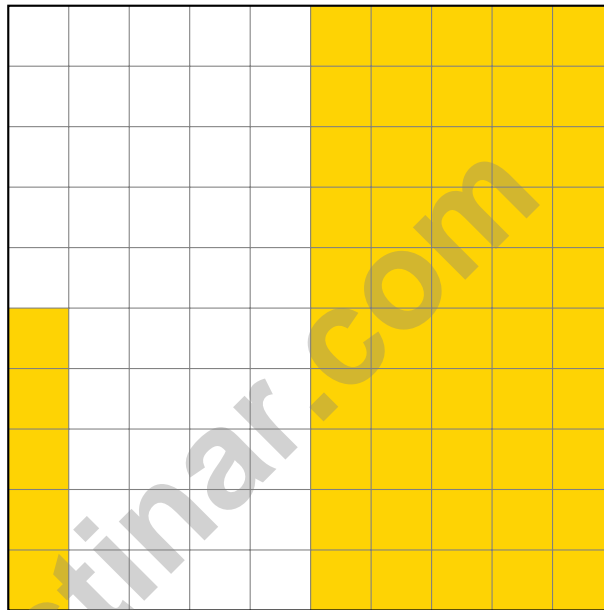


- A. Cross pattern with 6 squares C. 2×3 rectangle
 B. Line of 5 squares with 1 attached D. Line of 4 squares only
- 5) A student mistakenly uses the formula $A = \pi d^2$ instead of $A = \pi r^2$ for a circle with radius 3 inches and $\pi \approx 3.14$. What incorrect area would they calculate?
- A. 113.04 in^2 C. 56.52 in^2
 B. 28.26 in^2 D. 9.42 in^2
- 6) Solve for x : $x - 4 = 14$.



1) Two classes' quiz scores (out of 20) have median of 16 but different ranges: Class X range = 8, Class Y range = 12. Which had more consistent performance?

- A. Class X
- B. Class Y
- C. Both equally consistent
- D. Cannot determine



2)

What percent of the grid is shaded yellow?


- A. 35%
- B. 45%
- C. 50%
- D. 55%




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- 3) Sam says the ratio of boys to girls in a class is 3 : 5, and there are 40 students total. He calculates there are 25 boys and 15 girls. What is Sam's error?

Ratio 3 : 5 (Boys:Girls)

Boys:  3 parts $\times 5 = 15$ students

Girls:  5 parts $\times 5 = 25$ students

Sam flipped the groups: he used 25 for boys and 15 for girls.

- A. He flipped the ratio C. He forgot to find the unit rate
 B. He divided instead of multiplied D. His calculation is correct
- 4) A plumber has a pipe that is 2 yards 6 inches long. How many inches total is this? (Use 1 yard = 36 inches.)
- A. 36 inches C. 72 inches
 B. 54 inches D. 78 inches



New Jersey NJSLA 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

- Choice A is correct.** **(6.NS.A.1)** The increase is $8 - (-5) = 8 + 5 = 13^\circ\text{F}$.
- The correct answer is 26.** **(6.NS.C.8)** Length = $10 - 1 = 9$ units; width = $4 - 1 = 3$ units. Perimeter = $2(9 + 3) = 2(12) = 26$ units.
- Choice D is correct.** **(6.SP.A.2)** Actual dimensions: $6 \times 5 = 30$ m and $4 \times 5 = 20$ m. Area: $30 \times 20 = 600$ sq m.
- Choice D is correct.** **(6.SP.A.3)** The 1 loss part stands for 4 losses, so each ratio part is worth 4. Wins are 4 parts, and $4 \times 4 = 16$ wins.
- Choice C is correct.** **(6.SP.B.5)** 25% of \$12 = $0.25 \times 12 = \$3$. New cost is $\$12 - \$3 = \$9$.
- Choice B is correct.** **(6.SP.B.4)** Discount amount: 25% of \$80 = $0.25 \times 80 = \$20$. Sale price: $\$80 - \$20 = \$60$.
- Choice D is correct.** **(6.RP.A.1)** The bars for 2 visits and 3 visits have heights of 3 and 4 respectively. Total: $3 + 4 = 7$ students.
- Choice C is correct.** **(6.SP.B.4)** $\frac{2}{5} = 40\%$. So $0.40 \times 480 = 192$ matinee tickets.
- Choice D is correct.** **(6.NS.C.8)** A ratio describes a relationship, not just one exact total. 7 : 5 means for every 7 red blocks there are 5 blue blocks, but the actual counts could be 14 and 10, 21 and 15, and so on.
- Choice A is correct.** **(6.NS.C.7)** Divide sugar by cupcakes: $3 \div 24 = \frac{3}{24} = \frac{1}{8}$ cup per cupcake.
- Choice A is correct.** **(6.NS.B.3)** Unit price is total cost divided by number of units: $\$12 \div 8 = \1.50 per pound.
- Choice B is correct.** **(6.NS.B.3)** The ratio is 3 : 4. When red is 12 (multiply by 4), blue is $4 \times 4 = 16$ oz.
- Choice B is correct.** **(6.NS.B.3)** The ratio is 3:2 (flour:sugar). Points on this line satisfy sugar = $\frac{2}{3}$ flour. Check: (3, 2) gives $2 = \frac{2}{3}(3)$ ✓; (6, 4) gives $4 = \frac{2}{3}(6)$ ✓; (9, 6) gives $6 = \frac{2}{3}(9)$ ✓. The other options do not maintain this ratio.
- Choice B is correct.** **(6.EE.A.3)** Shaded: $3 \times 10 + 3 \times 5 = 30 + 15 = 45$ squares out of $100 = 45\%$.
- The correct answer is 228.** **(6.EE.A.1)** $SA = 2(9)(4) + 2(9)(6) + 2(4)(6) = 72 + 108 + 48 = 228$ cm².
- Choice B is correct.** **(6.EE.A.3)** Ratio 3 : 2 with red = 9 cans: each part is $9 \div 3 = 3$ cans. Blue paint: $2 \times 3 = 6$ cans.
- Choice C is correct.** **(6.EE.B.5)** Multiply: $4 \times 2 = 8$ pints.
- Choice A is correct.** **(6.EE.B.8)** For a proportional relationship, when hours = 0, pay must = 0. Here, when hours = 0, pay = \$5 (a fixed fee), so the relationship is not proportional. The equation is $p = 5h + 5$, which includes a non-zero constant term.
- Choice B is correct.** **(6.EE.B.8)** Discretionary: $100\% - 60\% - 25\% = 15\%$.
- Choice B is correct.** **(6.NS.B.3)** $2\frac{1}{2} \div \frac{5}{8} = \frac{5}{2} \times \frac{8}{5} = \frac{40}{10} = 4$.
- The correct answer is Both A and B have volume 24.** **(6.G.A.1)** A: $6 \times 2 \times 2 = 24$ ✓. B: $4 \times 3 \times 2 = 24$ ✓. C: $8 \times 3 \times 2 = 48$. D: $5 \times 5 \times 1 = 25$. E: $4 \times 4 \times 2 = 32$. Only A and B equal 24 cubic units.
- The correct answer is 50.24.** **(6.G.A.2)** Area = $\pi r^2 \approx 3.14 \times 4^2 = 3.14 \times 16 = 50.24$ ft².
- Choice A is correct.** **(6.G.A.3)** $4,752 \div 24 = 198$. Check: $24 \times 198 = 4,752$.
- Choice A is correct.** **(6.G.A.4)** Round: $8.9 \approx 9$ and $6.2 \approx 6$. Then $9 \times 6 = 54$. The exact answer is 55.18, which is closest to 54.
- Choice A is correct.** **(6.RP.A.1)** Multiples of 9: 9, 18, 27, 36, 45, ... Multiples of 12: 12, 24, 36, 48, ... The least common multiple is 36.
- Choice A is correct.** **(6.SP.A.2)** Distributive property: $11(2 + 5) = 11 \cdot 2 + 11 \cdot 5 = 22 + 55 = 77$. Choice A shows the expanded form before combining.
- Choice C is correct.** **(6.RP.A.3)** $|-5| = 5$, $|-3| = 3$, $|2| = 2$. So $5 + 3 - 2 = 6$.
- Choice B is correct.** **(6.NS.A.1)** The point 2.6 is six tenths of the way from 2 to 3, making it exactly the position given.
- Choice A is correct.** **(6.SP.A.2)** Distance on grid: $|10 - 2| = 8$ units. Actual distance: $8 \times 50 = 400$ meters.
- The correct answer is 2.4.** **(6.RP.A.3)** Mean = $(6 + 8 + 10 + 12 + 14) / 5 = 10$. Deviations: $|6 - 10| = 4$, $|8 - 10| = 2$, $|10 - 10| = 0$, $|12 - 10| = 2$, $|14 - 10| = 4$. MAD = $(4 + 2 + 0 + 2 + 4) / 5 = 2.4$.



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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.



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