

8

New Jersey

NJSLA

GRADE 7

MATH

PRACTICE TESTS



**Standards Aligned
Problem Solving**

For Comprehensive
Assessment Programs



8 PRINTED TESTS



2 ONLINE TESTS



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



BUILD CONFIDENCE



STRENGTHEN SKILLS



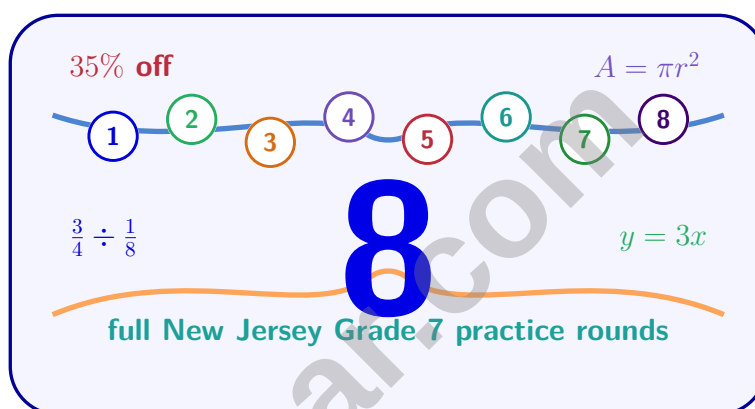
THINK SMARTER



BE TEST-READY

8 New Jersey NJSLA Grade 7 Math Practice Tests

A classroom-ready review of New Jersey Grade 7 rational numbers, algebraic reasoning, scale models, circles, and statistical thinking



Eight complete 40-question Grade 7 NJSLA practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, New Jersey Grade 7 Problem Solver!

Eight focused rounds for sharper NJSLA math thinking

This book gives you eight full Grade 7 NJSLA math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your New Jersey Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

An eight-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

New Jersey review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Eight NJSLA tests, 320 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–8	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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For more practice
& answers

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1) What is the value of $(-3)^2$?

☐ A. -9

☐ C. 9

☐ B. 6

☐ D. -6

2) Which inequality represents “the difference of a number and 5 is greater than 8”?

☐ A. $5 - x > 8$

☐ C. $x - 5 < 8$

☐ B. $x - 5 > 8$

☐ D. $x + 5 > 8$

3) Simplify: $(12a - 5) - (7a + 3)$

☐ A. $5a - 8$

☐ C. $19a - 8$

☐ B. $5a + 8$

☐ D. $5a - 2$

4) What is the solution to $7x + 4 = 32$? (Check by substitution.)

$$7x + 4 = 32$$



Subtract 4

$$7x = 28$$



Divide by 7

$$x = 4 \checkmark$$

☐ A. $x = 3$

☐ C. $x = 5$

☐ B. $x = 4$

☐ D. $x = 6$

5) Solve for x : $7(x + 1) = 49$

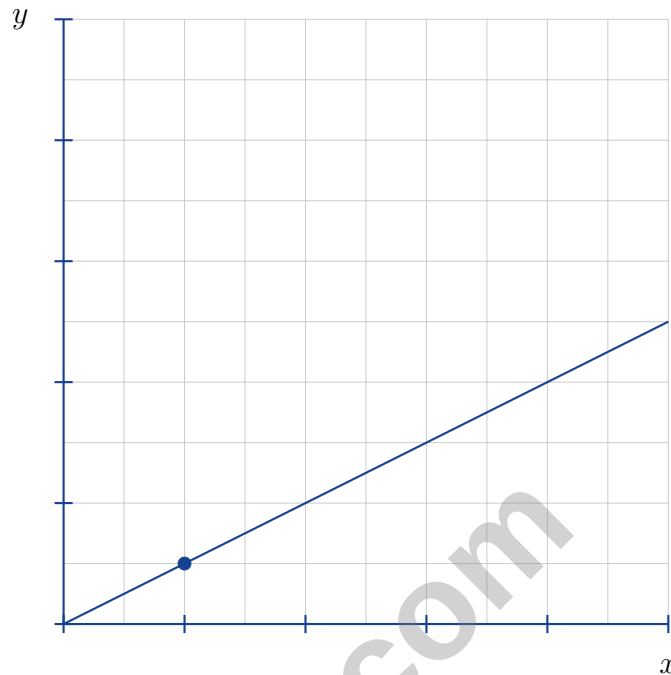
☐ A. $x = 5$

☐ C. $x = 7$

☐ B. $x = 6$

☐ D. $x = 8$





6)

The graph shows a proportional relationship. What is the unit rate (the value of y at $x = 1$)?

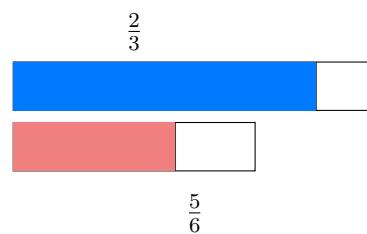
☐ A. 5

☐ C. 2

☐ B. 1

☐ D. 0.5

7) The bar diagram shows two quantities. What is the difference?


☐ A. $\frac{1}{6}$
☐ C. $\frac{1}{3}$
☐ B. $\frac{3}{6}$
☐ D. 1


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- 8) If you earn \$18 per hour and work 35 hours per week, what is your weekly gross pay before taxes?

- 9) A hiker starts at an elevation of 500 feet and descends 750 feet. What is the hiker's final elevation? (Represent descent as a negative change.)

- 10) Between which two consecutive integers does $\sqrt{40}$ lie? (Write your answer in the form "between a and b ")

- 11) What is $\frac{1}{5} \div \frac{1}{3}$?

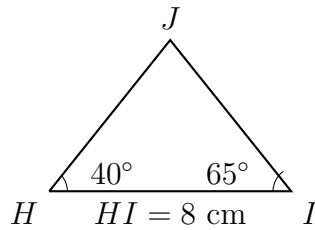
☐ A. $\frac{1}{15}$

☐ B. $\frac{3}{5}$

☐ C. $\frac{3}{15}$

☐ D. $\frac{1}{1}$





1)

Triangle $H I J$ has base $H I = 8$ cm, $\angle H = 40^\circ$, and $\angle I = 65^\circ$. Is this triangle uniquely determined?

- ☐ A. No, infinitely many triangles fit ☐ C. Yes, by SAS (Side–Angle–Side)
☐ B. Yes, by AAS (Angle–Angle–Side) ☐ D. No, we need the third angle

2) A shop charges \$5 per pizza and then adds a delivery fee. If 4 pizzas plus delivery cost \$28 total, what is the delivery fee?

- ☐ A. \$3 ☐ C. \$8
☐ B. \$5 ☐ D. \$12

3) A scale drawing shows a rectangular garden with dimensions 6 cm $\times$ 4 cm. The scale is 1 cm : 2 m. What is the area of the actual garden?

- ☐ A. 48 m² ☐ C. 192 m²
☐ B. 96 m² ☐ D. 384 m²

4) Add: $\frac{1}{2} + \frac{1}{3}$

- ☐ A. $\frac{2}{5}$ ☐ C. $\frac{1}{6}$
☐ B. $\frac{5}{6}$ ☐ D. $\frac{2}{6}$



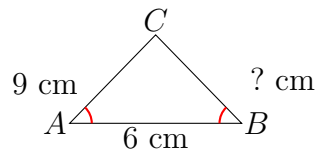
- 5) A storage container holds x liters. Three identical containers hold how much total volume?

☐ A. $x + 3$

☐ C. x^3

☐ B. $3x$

☐ D. $x + x + x + 3$



6)

A triangle has side lengths of 6 cm and 9 cm. Which length CANNOT be the third side?

☐ A. 5 cm

☐ C. 16 cm

☐ B. 10 cm

☐ D. 8 cm

- 7) A fair die is rolled. What is the probability of rolling an even number?

☐ A. $\frac{1}{6}$

☐ C. $\frac{1}{2}$

☐ B. $\frac{2}{6}$

☐ D. $\frac{2}{3}$

- 8) A histogram shows the same data displayed in two different ways: Version A uses intervals of width 5 (0–5, 5–10, 10–15, etc.), while Version B uses intervals of width 10 (0–10, 10–20, 20–30, etc.). How would the two histograms appear different?

☐ A. Version A would show more detail and variation; Version B would show a smoother pattern

☐ C. Version B would be more accurate because larger intervals are always better

☐ B. Both histograms would look identical regardless of interval width

☐ D. Version A would have fewer bars but higher frequencies



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1) Which value is NOT a valid probability?

☐ A. 0

☐ C. 1

☐ B. 0.5

☐ D. 1.01

2) A scatter plot shows the relationship between the price of a bicycle (x-axis, in dollars) and the number sold per month (y-axis). The points show a downward trend. What does this suggest?

☐ A. Expensive bikes never sell

☐ C. Price and sales are unrelated

☐ B. Lower-priced bikes tend to sell more

☐ D. The store should lower all prices

3)

Color	Purple	Orange	Pink
Probability	$\frac{2}{7}$	$\frac{2}{7}$	$\frac{3}{7}$

Is this a valid probability model?

☐ A. Yes, each probability is positive.

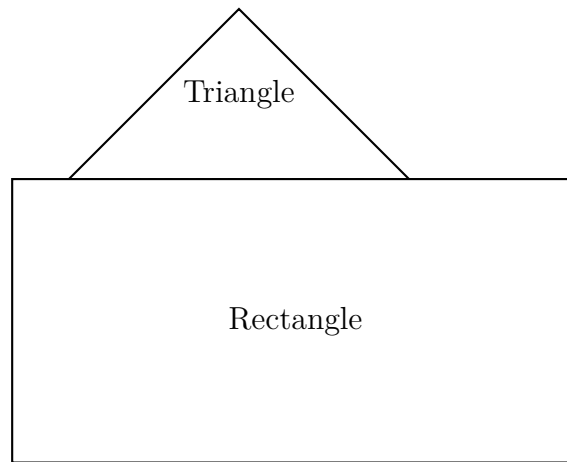
☐ C. No, Orange and Purple should have different probabilities.

☐ B. No, the probabilities sum to more than 1.

☐ D. Yes, each probability is at most 1 and they sum to 1.

4) A blueprint for a kitchen has dimensions of 3.2 inches by 2.8 inches with a scale of 1 inch = 3 feet. What is the actual area of the kitchen in square feet?





5)

A composite figure shows a house shape: a rectangle (10 units $\times$ 5 units) with a triangular roof (base 6 units, height 3 units). What is the total area?

- ☐ A. 50 sq units ☐ C. 68 sq units
☐ B. 59 sq units ☐ D. 80 sq units

6) A chip model shows $-2 + (-3)$. Which diagram is correct?



A



B



C



D

7) What is the coefficient of x in the simplified form of $9x - 4x + 2y$?

- ☐ A. 9 ☐ C. 4
☐ B. 5 ☐ D. 13



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New Jersey NJSLA Grade 7 Practice Test Answer Keys**How to use this section with a Grade 7 student:**

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next New Jersey NJSLA practice test.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (7.EE.1-7.EE.2) An even exponent makes a negative base positive: $(-3)^2 = (-3) \cdot (-3) = 9$.
- 2) **Choice B is correct.** (7.EE.4b) “The difference of a number and 5” is $x - 5$; “is greater than 8” is > 8 .
- 3) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute the negative: $12a - 5 - 7a - 3 = (12a - 7a) + (-5 - 3) = 5a - 8$.
- 4) **Choice B is correct.** (7.EE.3-7.EE.4) Subtract 4: $7x = 28$. Divide by 7: $x = 4$. Check: $7(4) + 4 = 28 + 4 = 32$ ✓.
- 5) **Choice B is correct.** (7.EE.4a) Distribute: $7x + 7 = 49$. Subtract 7: $7x = 42$. Divide by 7: $x = 6$.
- 6) **Choice D is correct.** (7.RP.1-7.RP.3) A proportional relationship passes through the origin. The marked point is $(2, 1)$, so the unit rate $k = 1/2 = 0.5$. The line equation is $y = 0.5x$.
- 7) **Choice A is correct.** (7.NS.1-7.NS.3) Difference: $\frac{5}{6} - \frac{2}{3} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6}$.
- 8) **The correct answer is \$630.** (7.RP.3) Weekly pay: $18 \times 35 = \$630$.
- 9) **The correct answer is -250.** (7.NS.1b) $500 + (-750) = -250$ feet. The final elevation is 250 feet below the reference point (sea level or starting reference).
- 10) **The correct answer is $(6, 7)$.** (7.NS.1-7.NS.3) $6^2 = 36$ and $7^2 = 49$. Since $36 < 40 < 49$, the answer is between 6 and 7.
- 11) **Choice B is correct.** (7.NS.1-7.NS.3) $\frac{1}{5} \div \frac{1}{3} = \frac{1}{5} \times \frac{3}{1} = \frac{3}{5}$.
- 12) **Choice C is correct.** (7.NS.2d) Divide $5 \div 9 = 0.555 \dots = 0.\bar{5}$. The denominator $9 = 3^2$ produces a repeating decimal.
- 13) **Choice C is correct.** (7.NS.1-7.NS.3) $0.0003 = 3 \times 10^{-4}$ (move decimal 4 places right). The student moved it only 3 places.
- 14) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute: $5(3y) - 5(2) + 4y = 15y - 10 + 4y$. Combine y terms: $15y + 4y - 10 = 19y - 10$.
- 15) **Choice B is correct.** (7.EE.4a) Haircut is \$25 plus \$8 per treatment. Equation: $8t + 25 = 73$.
- 16) **Choice D is correct.** (7.EE.3-7.EE.4) Correct: Subtract 6: $\frac{1}{2}x = 4$ (not 16). Multiply by 2: $x = 8$ (not 32). Both steps contain errors.
- 17) **Choice A is correct.** (7.SP.5-7.SP.8) Red sector is 180° out of 360° : $P(\text{red}) = \frac{180}{360} = \frac{1}{2}$.
- 18) **Choice A is correct.** (7.NS.2) $0.7 \times (-10) = -7$. Positive times negative is negative.
- 19) **The correct answer is A,D.** (7.NS.1-7.NS.3) Statement A is true: the opposite of -5 is 5 (positive). Statement D is true: -5 and 5 are each 5 units from zero. Statement B is false because opposites have the same absolute value. Statement C is false: $5 + (-5) = 0$, not 10.
- 20) **Choice A is correct.** (7.SP.3) Histogram centers: Professionals (5–7, center 6) vs. Students (7–9, center 8). The difference in centers is approximately 2 hours. This reflects typical difference without claiming absolutes.
- 21) **Choice D is correct.** (7.RP.3) Sales tax = $0.09 \times 150 = \$13.50$. Final cost = $150 + 13.50 = \$163.50$.
- 22) **Choice C is correct.** (7.G.4-7.G.6) The L-shape is split into two rectangles: one is 7×5 , the other is 3×3 . Add their areas: $35 + 9 = 44 \text{ m}^2$.
- 23) **Choice D is correct.** (7.RP.1-7.RP.3) Divide both 12 and 8 by their GCD, which is 4: $12 \div 4 = 3$ and $8 \div 4 = 2$. So the simplest form is $3 : 2$.
- 24) **Choice B is correct.** (7.G.4-7.G.6) $h = \frac{V}{l \times w} = \frac{360}{10 \times 6} = \frac{360}{60} = 6$ inches.
- 25) **Choice C is correct.** (7.G.1-7.G.5) The third angle is $180^\circ - 45^\circ - 65^\circ = 70^\circ$. When two angles and any side are given, the triangle is uniquely determined.
- 26) **Choice B is correct.** (7.G.4-7.G.6) The segment BA passes through the center O and has endpoints on the circle, making it a diameter.
- 27) **Choice B is correct.** (7.G.1-7.G.5) Two triangles with the same three side lengths are congruent by SSS, regardless of the order in which the sides are listed. Congruence depends only on matching side lengths.
- 28) **Choice B is correct.** (7.SP.1-7.SP.4) Group 1: $\frac{24}{80} = 0.30$ or 30%; Group 2: $\frac{35}{100} = 0.35$ or 35%; Group 3: $\frac{27}{90} = 0.30$ or 30%. Group 2 is different.



Hi, Confident Learner!

◇ This wide-ranging book gave you eight serious Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. Grade 7 math can feel big because it brings together rational numbers, expressions, equations, geometry, probability, and data. ◇

★ **Remember this:** But big topics become manageable when you practice one skill at a time. That is what you have been doing with every test in this book. ★

Confidence Builders

- **Know the Goal:** Identify what the question asks.
- **Use Vocabulary:** Math words point to math actions.
- **Show Work:** Give yourself something to check.
- **Celebrate Effort:** Practice is proof that you are moving.

Grade 7 test-day tip: When reviewing, do not only mark wrong answers. Write one sentence about what you learned from each one.

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

Jay Daie

Your Confidence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **8** full-length Math practice tests and **2** online tests to help Grade 7 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:

8 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations



MORE PRACTICE. GREATER RESULTS.

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

WHAT YOU'LL 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 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.

TOPICS COVERED

- ✓ Ratios & Proportions
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Percents & Decimals
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ Algebraic Thinking
- ✓ And More!



2 ONLINE TESTS

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