

5

New Jersey

NJSLA

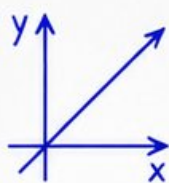
GRADE

7

MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$



$$V = \pi r^2 h$$



5

PRINTED
TESTS

2

ONLINE
TESTS

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



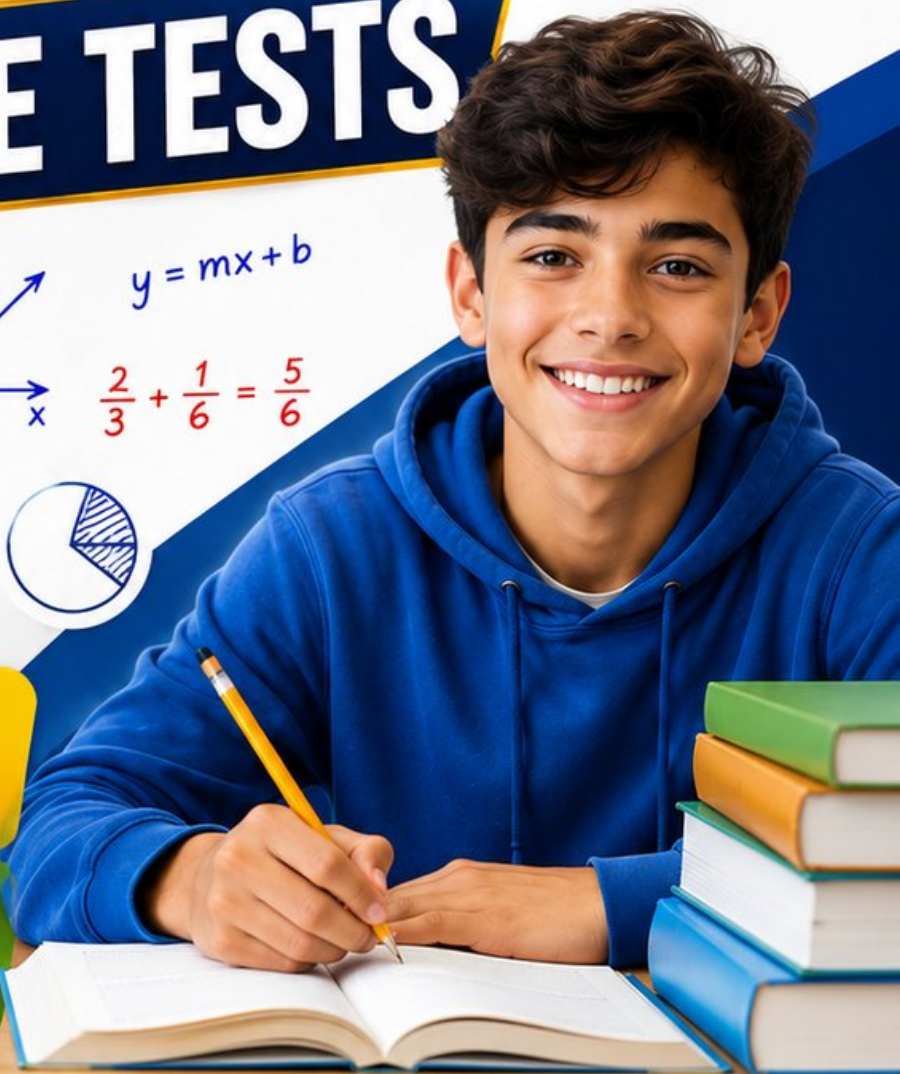
Strengthen
Math Skills



Detailed Answers
& Explanations



Improve Test
Performance



5 New Jersey NJSLA Grade 7 Math Practice Tests

Grade 7 Math Prep with Five Tests, Keys, and Clear Explanations



Five 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!

Five focused rounds for sharper NJSLA math thinking

This book gives you five 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

A five-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?

Five NJSLA tests, 200 questions, and a focused review path

Part	What You Will Practice
Tests 1–2	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 3–5	Expressions, equations, inequalities, scale drawings, geometry, data, probability, and multi-step problem solving.
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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& answers

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1) Five erasers cost $\frac{3}{4}$ dollar. What is the cost per eraser?

☐ A. \$1.25

☐ C. \$3.75

☐ B. \$0.60

☐ D. \$0.15

2) A student evaluates $-4 - (-6)$ and claims the answer is -10 . What is the student's mistake?

☐ A. Computing $-4 + 6 = 2$ when the answer should be -10

☐ C. Adding instead of subtracting the opposite value

☐ B. Adding the numbers instead of converting to addition: $-4 + (-6) = -10$

☐ D. Correctly applying the rule but making a computation error

3) A family's monthly budget is divided as follows: housing 35%, food 20%, transportation 15%, entertainment 10%, and other 20%. If the monthly income is \$3000, how much is allocated to food?

☐ A. \$300

☐ C. \$600

☐ B. \$450

☐ D. \$750

4) A proportional relationship passes through the points $(6, 2)$ and $(0, 0)$. What is the constant of proportionality?



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- 5) A textbook page is 8 inches by 10 inches. For a digital version, the page is scaled by a factor of 0.75. What are the digital dimensions?
- ☐ A. 12 inches $\times$ 15 inches ☐ C. 5.33 inches $\times$ 6.67 inches
☐ B. 8.75 inches $\times$ 10.75 inches ☐ D. 6 inches $\times$ 7.5 inches
- 6) A survey finds that 84 out of 300 people prefer brand X. What percent is this?
- ☐ A. 20% ☐ C. 28%
☐ B. 24% ☐ D. 32%
- 7) What is $18 + 27$?
- ☐ A. -45 ☐ C. 45
☐ B. 9 ☐ D. 486
- 8) Which expression represents “4 times the difference of n and 2”?
- ☐ A. $4n - 2$ ☐ C. $4(n - 2)$
☐ B. $4 - 2n$ ☐ D. $2(4 - n)$
- 9) Which equation does NOT represent a proportional relationship?
- ☐ A. $y = \frac{1}{2}x$ ☐ C. $y = 4x - 7$
☐ B. $y = -3x$ ☐ D. $y = 0.8x$
- 10) If an investment of \$2,000 grows by 8% per year, what is the interest earned after one year?
- ☐ A. \$80 ☐ C. \$320
☐ B. \$400 ☐ D. \$160



- 11) A recipe uses $\frac{2}{3}$ cup of milk. If you double the recipe, how much milk do you need?
- ☐ A. $\frac{2}{6}$ cup ☐ C. $1\frac{1}{3}$ cups
☐ B. $\frac{2}{3}$ cup ☐ D. 2 cups
- 12) A proportional relationship passes through the origin and the point (5, 12). Which equation represents this relationship?
- ☐ A. $y = 60x$ ☐ C. $y = 12x$
☐ B. $y = 5x$ ☐ D. $y = 2.4x$
- 13) A membership costs \$80 per month. If a gym offers a 10% discount for annual payment, how much would the annual membership cost?
- ☐ A. \$720 ☐ C. \$864
☐ B. \$800 ☐ D. \$960
- 14) A student computed $-8 + 5$ and got -13 . What was the error?
- ☐ A. Subtracted instead of added ☐ C. Used the wrong sign for the result
☐ B. Added the absolute values without keeping correct sign ☐ D. The answer is correct
- 15) Explain why division is NOT commutative: Why is $12 \div 3$ different from $3 \div 12$?
- ☐ A. Division order does not matter; both equal 4 ☐ C. One is positive, the other is negative
☐ B. Division order matters; $12 \div 3 = 4$ but $3 \div 12 = 0.25$ ☐ D. Division is always commutative



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- 1) A customer's bill at a cafe is \$36. She wants to tip 20% and then split the total equally with a friend. How much does each person pay?

☐ A. \$18.00 ☐ C. \$25.20
☐ B. \$43.20 ☐ D. \$21.60

- 2) A retirement fund has \$50,000 that earns 3.2% simple interest per year. What will be the total value of the fund after 10 years?

☐ A. \$51,600 ☐ C. \$66,000
☐ B. \$56,000 ☐ D. \$66,400

- 3) A streaming service charges \$12 per month. Which equation represents the total cost C for m months?

☐ A. $C = m + 12$ ☐ C. $m = 12C$
☐ B. $C = \frac{12}{m}$ ☐ D. $C = 12m$

- 4) A chef uses flour and sugar in a proportional recipe. The table shows the relationship.

Flour (cups)	Sugar (cups)
3	1
6	2
9	3

What is the constant of proportionality (sugar per flour)?

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



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& answers

- 5) A teen has \$30 to spend on a new phone and games. If the phone costs \$12, write an inequality for how much g (in dollars) they can spend on games.

☐ A. $g \leq 18$

☐ C. $g + 30 = 12$

☐ B. $12 + g \leq 30$

☐ D. $g > 18$

- 6) Simplify $6p^2 + 2p - 3p^2 - 5p + 4p^2$, then evaluate when $p = 2$.

- 7) A rectangular prism has length 7 cm, width 2 cm, and height 4 cm. What is the total surface area?

☐ A. 56 cm^2

☐ C. 100 cm^2

☐ B. 72 cm^2

☐ D. 112 cm^2

- 8) A restaurant manager posts a survey on Facebook asking customers for feedback. What bias is introduced by this sampling method?

☐ A. Voluntary response bias☐ C. Systematic bias☐ B. Stratified bias☐ D. Measurement bias

- 9) Which solution strategy is correct for $4x + 6 = 30$?

☐ A. Subtract 6, then divide by 4☐ C. Multiply by 4, then add 6☐ B. Divide by 4, then subtract 6☐ D. Add 6, then divide by 4

1) Identify the correct factorization of $-9m - 12$:

☐ A. $-3(3m + 4)$

☐ C. $-3(3m - 4)$

☐ B. $3(-3m - 4)$

☐ D. $9(-m - 1.33)$

2) Solve for x : $6(x - 2) = 36$

3) Solve: $2x + 7 \geq -1$

☐ A. $x \geq -4$

☐ C. $x \leq -4$

☐ B. $x \geq 3$

☐ D. $x > -4$

4) Solve: $9x - 5 = 49$

☐ A. $x = 4$

☐ C. $x = 6$

☐ B. $x = 5$

☐ D. $x = 7$

5) If a scale is 2 cm : 1 km, and you measure 5 cm on the map, what is the actual distance?

☐ A. 1.5 km

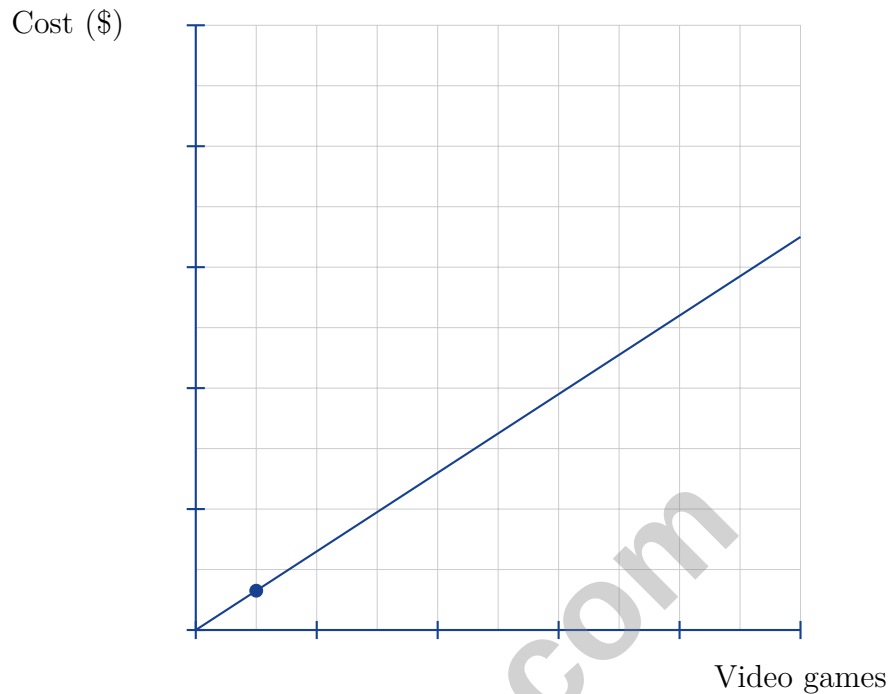
☐ C. 2.5 km

☐ B. 2 km

☐ D. 5 km



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& answers



6)

A store sells used video games at a constant unit price shown in the graph. How much do 4 video games cost?

☐ A. \$0.65☐ C. \$4.00☐ B. \$6.50☐ D. \$2.60

7) Amir's bank account shows a balance of $-\$75$. He deposits $\$120$. What is his new balance?

☐ A. $-\$195$ ☐ C. $\$45$ ☐ B. $-\$45$ ☐ D. $\$195$ 

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 D is correct.** (7.RP.1-7.RP.3) Unit rate = $\frac{3/4}{5} = \frac{3}{4} \times \frac{1}{5} = \frac{3}{20} = 0.15$ dollars per eraser.
- 2) **Choice B is correct.** (7.NS.1-7.NS.3) The error is choice B. The student forgot to flip the sign of -6 to $+6$. The correct process: $-4 - (-6) = -4 + 6 = 2$. The student mistakenly added $-4 + (-6) = -10$ instead.
- 3) **Choice C is correct.** (7.SP.1-7.SP.4) 20% of \$3000 = $0.20 \times 3000 = \$600$.
- 4) **The correct answer is $\frac{1}{3}$.** (7.RP.1-7.RP.3) The constant is $k = \frac{y}{x} = \frac{2}{6} = \frac{1}{3}$.
- 5) **Choice D is correct.** (7.RP.1-7.RP.3) Multiply each dimension by 0.75: $8 \times 0.75 = 6$ inches; $10 \times 0.75 = 7.5$ inches.
- 6) **Choice C is correct.** (7.RP.3) $\frac{84}{300} = \frac{7}{25} = 0.28 = 28\%$.
- 7) **Choice C is correct.** (7.NS.1b) Both numbers are positive, so add them: $18 + 27 = 45$.
- 8) **Choice C is correct.** (7.EE.1-7.EE.2) Difference of n and 2 is $(n - 2)$. Four times this is $4(n - 2)$.
- 9) **Choice C is correct.** (7.RP.1-7.RP.3) Proportional: no constant term. Option C has -7 (constant), so not proportional.
- 10) **Choice D is correct.** (7.RP.3) Interest = $8\% \times \$2,000 = 0.08 \times 2000 = \160 .
- 11) **Choice C is correct.** (7.NS.1-7.NS.3) Double: $\frac{2}{3} \times 2 = \frac{4}{3} = 1\frac{1}{3}$ cups.
- 12) **Choice D is correct.** (7.RP.1-7.RP.3) The unit rate is $12 \div 5 = 2.4$. So the equation is $y = 2.4x$.
- 13) **Choice C is correct.** (7.RP.3) Annual before discount: $80 \times 12 = 960$. Discount: $\frac{10}{100} \times 960 = 96$. Price: $960 - 96 = \$864$.
- 14) **Choice B is correct.** (7.NS.1-7.NS.3) Correct answer: $-8 + 5 = -3$. The student likely added $|-8| + |5| = 13$ and then used the negative sign, forgetting that when adding numbers with different signs, the result has the sign of the larger absolute value.
- 15) **Choice B is correct.** (7.NS.1-7.NS.3) $12 \div 3 = 4$ but $3 \div 12 = \frac{1}{4} = 0.25$. Division is **not commutative**: changing the order changes the result. This is different from addition and multiplication.
- 16) **Choice C is correct.** (7.NS.2d) Divide $1 \div 2 = 0.5$. This is a terminating decimal since the denominator has only factors of 2 and 5.
- 17) **Choice B is correct.** (7.NS.1-7.NS.3) Net change = $250 - 180 + 120 = 190$ feet.
- 18) **Choice B is correct.** (7.NS.1-7.NS.3) Proper scientific notation requires $1 \leq a < 10$. The coefficient $0.34 < 1$, so it violates this rule.
- 19) **Choice A is correct.** (7.NS.2) Option A directly disproves the claim: negative times positive (-10) is smaller, not larger, than positive times positive (10). The products are equal in magnitude but opposite in sign, showing the claim is false. Options B, C, D also work but use less intuitive magnitudes.
- 20) **Choice C is correct.** (7.NS.1-7.NS.3) $\sqrt{144} = 12$ inches since $12 \times 12 = 144$.
- 21) **The correct answer is A, C.** (7.RP.1-7.RP.3) From the table, $k = 14/2 = 7$, so A is true and the equation is $y = 7x$ (C is true). B is false: $k = 7$, not 2.8. D is false: when $x = 10$, $y = 7 \cdot 10 = 70$, not 68.
- 22) **Choice B is correct.** (7.EE.1-7.EE.2) Distribute the 4 and 3 to each term in the parentheses: $4x - 8 + 3x + 3$. Then combine like terms: $(4x + 3x) + (-8 + 3) = 7x - 5$. The simplified form shows the final equivalent expression.
- 23) **Choice B is correct.** (7.SP.5-7.SP.8) PROBABILITY has 11 letters. Two B's are present (at positions 4 and 6), so $P(B) = \frac{2}{11}$.
- 24) **Choice A is correct.** (7.SP.3) Team A's box spans 2–6 hours; Team B's box spans 4–9 hours. The overlap region is where both boxes exist: from 4 to 6 hours. This means both teams have students who practice in this shared range.
- 25) **Choice D is correct.** (7.RP.3) Commission = commission rate $\times$ base price = $0.03 \times 22000 = \$660$. The documentation fee does not affect the commission base.
- 26) **The correct answer is \$60.** (7.RP.3) A 20% discount means the sale price is $100\% - 20\% = 80\%$ of the original. So $48 = \text{original} \times 0.80$, giving $\text{original} = 48 \div 0.80 = \60 . Check: $60 \times 0.80 = 48$ ✓
- 27) **Choice C is correct.** (7.G.4-7.G.6) Rectangle: $10 \times 8 = 80 \text{ in}^2$. Semicircle (radius 5): $\frac{1}{2} \times 3.14 \times 25 = 39.25 \text{ in}^2$. Total: $80 + 39.25 = 119.25 \text{ in}^2$.
- 28) **Choice C is correct.** (7.RP.1-7.RP.3) Original yogurt: $\frac{3}{4}$ cup. Scale by $\frac{2}{3}$: $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$ cup.



Hi, Persistent Problem Solver!

◇ Some Grade 7 questions ask you to hold several ideas in your mind at once. That can feel hard, and that is exactly why practice matters. ◇

★ **Remember this:** You showed persistence by continuing through the set. That habit is powerful because difficult problems often open after one more good attempt. You practiced across 5 full Grade 7 practice tests, and that repeated effort matters. ★

Persistence Tools

- **Try a Smaller Case:** Use an easier number to see the pattern.
- **Draw It:** Make the situation visible.
- **Restate It:** Say the question in your own words.
- **Check One Step:** Fix the first unclear place.

Grade 7 test-day tip: When stuck, do not restart everything. Find the first step you trust, then rebuild from there.

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

Jay Daie

Your Persistence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **5** 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:

5 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answers & 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



Build Confidence

Practice regularly to feel prepared and test-ready.



Strengthen Math Skills

Develop key math concepts and problem solving abilities.



Improve Understanding

Learn with clear explanations and step-by-step solutions.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Boost Performance

Apply your knowledge and achieve your best score!

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

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



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

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