7 New Jersey NJSLA Grade 6 MATH PRACTICE TESTS

7 PRINTED TESTS + 2 ONLINE TESTS

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

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

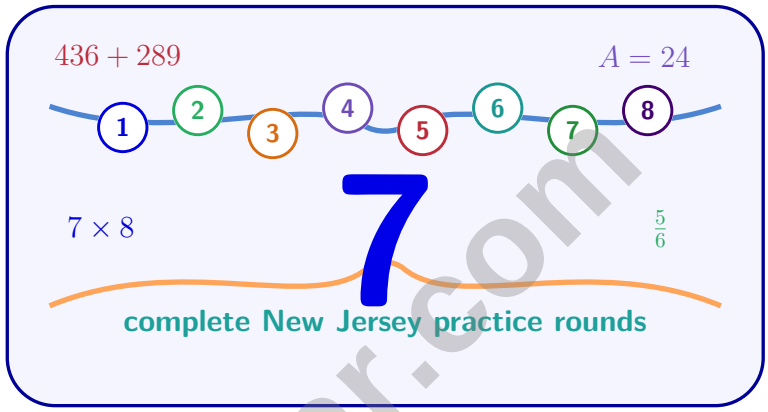
- 7 Full-Length Printed Tests
- Standards-Aligned Math Practice
- Detailed Answer Keys and Explanations
- Build Confidence. Achieve Success.

You've Got This!

PREPARE PRACTICE SUCCEED | PRACTICE WITH PURPOSE | STRENGTHEN MATH SKILLS | REVIEW, IMPROVE, AND SUCCEED

7 New Jersey NJSLA Grade 6 Math Practice Tests

Standards-Aligned Shore-To-City Test Focus for New Jersey Student Learning Assessments



Seven complete 40-question Grade 6 practice rounds for NJSLA, built for shore-to-city test focus 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!

Eight focused rounds using shore-to-city test focus

This book gives you seven full Grade 6 practice tests for NJSLA. Each round uses shore routes, busy streets, and quick checks with neat work 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

Stay alert: read the labels, solve in a clean order, and make the answer fit the question.

How to Use This Book

A seven-session routine for shore-to-city test focus

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Mark confidence.** Put a small star beside problems where your plan felt strong.
3. **Work in order.** Take one 40-question test at a time in a quiet place.
4. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.
5. **Correct actively.** Retry missed items before reading the full explanation.

New Jersey review rhythm: Take one round, review without rushing, and use the next test to sharpen weak skills.

What Is Inside?

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

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 7	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. Shore-to-city test focus means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

Table of Contents

1) A garden has 4 red flowers and 6 yellow flowers. Which statement correctly describes the ratio of red to yellow flowers?

☐ A. For every 2 red flowers there is 1 yellow flower.
☐ B. For every 1 red flower there are 2 yellow flowers.
☐ C. For every 2 red flowers there are 3 yellow flowers.
☐ D. For every 3 red flowers there are 4 yellow flowers.

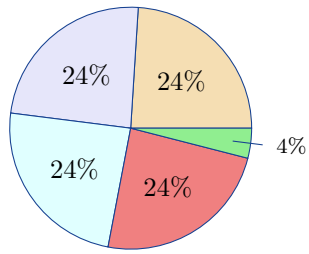
2) Which event is **certain** to happen?

☐ A. Rolling a number greater than 6 on a standard die.
☐ B. Drawing a card from a deck and it being a heart.
☐ C. Flipping a coin and it landing on heads or tails.
☐ D. Picking a red apple from a mixed fruit bowl.

3) A data set of hourly temperatures is displayed in a stem-and-leaf plot. If we remove all data points from stem 8, which statistic would definitely change?

Stem	Leaf
7	2, 5, 8
8	1, 4, 6, 9
9	0, 3

☐ A. The mode
☐ B. The mean
☐ C. The range
☐ D. The minimum



4)

The circle graph shows data from 500 items. How many items are represented by the 4% section?

☐ A. 20
☐ B. 15
☐ C. 10
☐ D. 25

5) A science class recorded the heights of 50 plants in cm: 8, 12, 15, 18, 20, 21, 22, 23, 25, 26, 28, 30, 31, 33, 35, 38, 40, 42, 44, 46, 48, 50, 52, 54, 55, 57, 59, 61, 62, 64, 65, 67, 68, 70, 72, 74, 75, 77, 78, 80, 82, 84, 85, 87, 88, 90, 92, 94, 95, 98.
Which display would be BEST for showing the spread and frequency of plant heights?

☐ A. Bar graph showing each height
☐ B. Pictograph with plant symbols
☐ C. Circle graph dividing by plant type
☐ D. Histogram with intervals of 10 cm

6) Find $|-18|$.

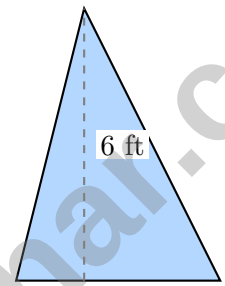
7) A car travels at a rate of 60 miles per hour. If we express the distance-to-time ratio as 60 : 1, how many miles does the car travel in 5 hours?

☐ A. 55 miles
☐ B. 65 miles
☐ C. 300 miles
☐ D. 12 miles

8) If 3 notebooks cost $9, how much will 7 notebooks cost?

☐ A. $18
☐ B. $20
☐ C. $21
☐ D. $27

9) A banner hangs on a wall in the shape of a triangle. It has a base of 4.5 feet and a height of 6 feet. What is the area of the banner?

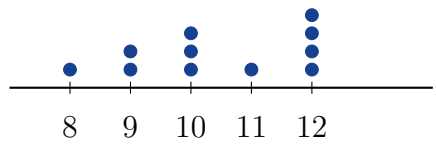


☐ A. 10.5 ft^2
☐ B. 13.5 ft^2
☐ C. 27 ft^2
☐ D. 54 ft^2

10) Prism A has dimensions 2 m, 3 m, and $\frac{5}{2}$ m. Prism B has dimensions 2.5 m, 2 m, and 3 m. Which statement is true?

☐ A. Prism A has larger volume
☐ B. Prism B has larger volume
☐ C. Both have the same volume
☐ D. Cannot be determined without more info

1) A dot plot shows the number of songs each student downloaded: $8, 9, 9, 10, 10, 10, 11, 12, 12, 12, 12$. What is the range of this data?



Songs Downloaded

☐ A. 2
☐ B. 3
☐ C. 4
☐ D. 5

2) What is the least common multiple (LCM) of 6 and 8?

☐ A. 24
☐ B. 18
☐ C. 14
☐ D. 48

3) Factor $27 + 18$ using the GCF.

☐ A. $3(9 + 6)$
☐ B. $9(3 + 2)$
☐ C. $6(4.5 + 3)$
☐ D. $18(2 + 1)$

4) A city's elevation is 150 feet. A nearby underground parking garage is at an elevation of -45 feet. What is the total distance between them vertically?

☐ A. 105 feet
☐ B. 150 feet
☐ C. 195 feet
☐ D. 45 feet

5) A school cafeteria serves hamburgers and hot dogs in a 7 : 3 ratio. If the cafeteria serves 21 hamburgers, how many hot dogs are served?

Hamburgers	Hot Dogs
7	3
14	6
21	?

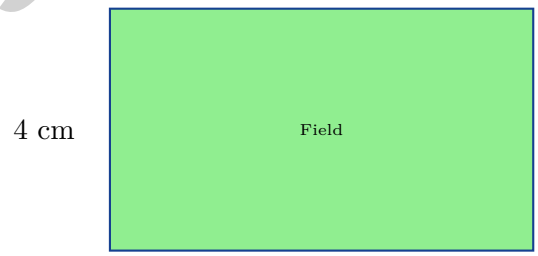
☐ A. 7
☐ B. 9
☐ C. 12
☐ D. 15

6) A recipe requires 3 cups of water for every 1 cup of rice. Complete the table and determine if the relationship is proportional.

Rice (cups)	1	2	3
Water (cups)	3	6	?

☐ A. Water = 9 cups; not proportional
☐ B. Water = 9 cups; proportional
☐ C. Water = 8 cups; proportional
☐ D. Water = 6 cups; not proportional

7) A scale drawing of a rectangular field is shown with a scale of 1 cm = 3 m.



What is the actual area of the field in square meters?

☐ A. 28 sq m
☐ B. 84 sq m
☐ C. 252 sq m
☐ D. 576 sq m

1) The distance between points $(b, 10)$ and $(b, 2)$ is 8 units. The points have the same x-coordinate. What value of b makes this true?

☐ A. Only $b = 0$
☐ B. Only $b = 1$
☐ C. Only $b = 6$
☐ D. Any value of b works

2) A trapezoid has parallel sides of length 5 units and 7 units. The height is 4 units. What is its area?

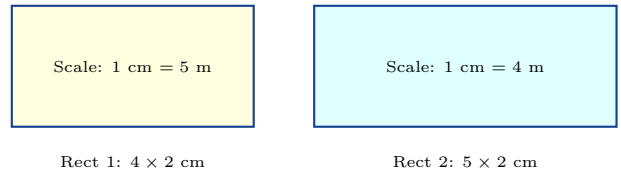
☐ A. 16 square units
☐ B. 20 square units
☐ C. 24 square units
☐ D. 28 square units

3) Which of the following does NOT represent a proportional relationship?

x	2	4	6
y (option A)	6	12	18
y (option B)	4	7	10

☐ A. Option A
☐ B. Option B
☐ C. Both A and B
☐ D. Both are proportional

4) Two rectangles are drawn using different scales. Rectangle 1 is 4 cm by 2 cm with scale 1 cm = 5 m. Rectangle 2 is 5 cm by 2 cm with scale 1 cm = 4 m. Which rectangle represents a larger actual area?



☐ A. Rectangle 1 has a larger actual area.
☐ B. Rectangle 2 has a larger actual area.
☐ C. Both rectangles have the same actual area.
☐ D. There is not enough information to decide.

5) Solve for x: $2x = 14$.

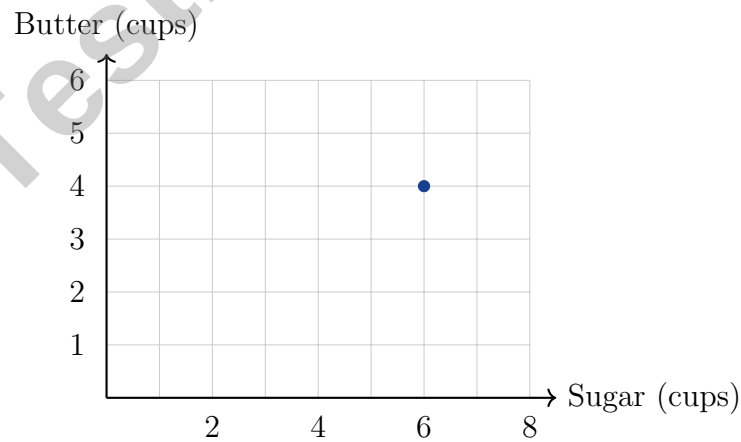
6) A recipe needs butter and sugar in a part-to-part ratio of 1 : 2. If you have 5 tablespoons of butter, how much sugar do you need?

☐ A. 2.5 tablespoons
☐ B. 5 tablespoons
☐ C. 7 tablespoons
☐ D. 10 tablespoons

7) A construction team builds a wall at a constant rate. They complete $\frac{3}{4}$ of the wall in 6 hours. How many hours does it take to build the entire wall?

☐ A. 4.5 hours
☐ B. 8 hours
☐ C. 9 hours
☐ D. 10 hours

8) A baker uses sugar and butter in the ratio 3:2. If the graph shows 6 cups of sugar on the x-axis, what should be on the y-axis (butter) at that point?



☐ A. 2 cups of butter
☐ B. 3 cups of butter
☐ C. 4 cups of butter
☐ D. 5 cups of butter

New Jersey NJSLA Practice Test Answer Keys

How to use this New Jersey NJSLA 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 shore-to-city test focus
3. rework the problem before reading the full explanation, using this reminder: Stay alert: read the labels, solve in a clean order, and make the answer fit the question.

A calm New Jersey correction routine turns every missed item into useful practice. Take one round, review without rushing, and use the next test to sharpen weak skills.

New Jersey Practice Test Answers and Explanations

Review the seven printed NJSLA tests with alert, efficient, and ready for the next route habits.

Practice Test 1 Answers and Explanations

1) **Choice C is correct.** 6.RP.A.3 Red comes first and yellow comes second, so write 4 : 6. Dividing both parts by 2 gives 2 : 3, which means for every 2 red flowers there are 3 yellow flowers.
2) **Choice C is correct.** 6.NS.B.3 Certain events have probability 1. Only choice C must happen every time a coin is flipped.
3) **Choice B is correct.** 6.SP.B.4 Removing data points changes the sum and count, which directly affects the mean. Range, minimum, and mode depend on specific values, not all points.
4) **Choice A is correct.** 6.NS.A.1 4% of 500 is $0.04 \times 500 = 20$ items.
5) **Choice D is correct.** 6.RP.A.3 With 50 continuous numerical values, a histogram groups them into intervals (e.g., 0–10, 11–20, etc.) to show the distribution pattern. A bar graph for each individual height would be too crowded; circle and pictographs don't display numerical distributions.
6) **The correct answer is** 18. 6.SP.B.4 Absolute value is distance from zero, so $|-18| = 18$.
7) **Choice C is correct.** 6.RP.A.1 The ratio 60 : 1 (miles to hours) means 60 miles per 1 hour. For 5 hours, multiply: $60 \times 5 = 300$ miles.
8) **Choice C is correct.** 6.RP.A.3 Unit price: $9 \div 3 = 3$ per notebook. For 7 notebooks: $3 \times 7 = 21$ dollars.
9) **Choice B is correct.** 6.G.A.1 $A = \frac{1}{2} \times 4.5 \times 6 = \frac{1}{2} \times 27 = 13.5$ ft^2.
10) **Choice C is correct.** 6.G.A.2 Prism A: $V = 2 \times 3 \times 2.5 = 15$ m^3. Prism B: $V = 2.5 \times 2 \times 3 = 15$ m^3. Both equal 15 m^3.
11) **Choice D is correct.** 6.SP.A.2 Range 2 has the tallest bar with frequency 5.
12) **Choice B is correct.** 6.SP.A.3 MAD (mean absolute deviation) is calculated by finding the distance from each point to the mean, then averaging these distances.
13) **Choice D is correct.** 6.NS.C.8 Side length: 4 units. Perimeter: $4 \times 4 = 16$ units.
14) **The correct answer is** 7. 6.SP.B.4 Distance $= 4 - (-3) = 4 + 3 = 7$ units. Use the formula: larger value minus smaller value.
15) **Choice A is correct.** 6.NS.B.3 Negative divided by negative is positive: $\frac{-72}{-9} = 8$.
16) **Choice C is correct.** 6.EE.A.3 Net record change: $3 - 5 = -2$ (2 games below .500).
17) **Choice B is correct.** 6.EE.A.3 Substitute $x = 6$: $10 - \frac{6}{2} = 10 - 3 = 7$.
18) **Choice B is correct.** 6.EE.C.9 Each output is 7 times the input: $1 \to 7$, $2 \to 14$, $3 \to 21$, $4 \to 28$. The equation is $y = 7x$.
19) **The correct answer is** 0. 6.NS.C.8 All points on the x-axis have a y-coordinate of 0. For the negative x-axis specifically, the x-coordinate is negative but y is always 0.
20) **The correct answer is GCF of** 16 **and** 24 **is** 8**; prime factorization of** 40 **is** $2^3 \times 5$**..** 6.NS.B.4 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.
21) **Choice A is correct.** 6.G.A.3 A square with side length 5 units has vertices at $(2, 2)$, $(7, 2)$, $(7, 7)$, and $(2, 7)$.
22) **Choice C is correct.** 6.RP.A.1 Area of a circle $= \pi r^2 \approx 3.14 \times 5^2 = 3.14 \times 25 = 78.5$ cm^2.
23) **Choice D is correct.** 6.SP.B.4 A bimodal distribution has two modes (peaks). This dot plot shows two peaks: one at 14 cm (frequency 4) and another at 18 cm (frequency 4). The values in between are lower, so the data clusters at two distinct points.
24) **Choice D is correct.** 6.RP.A.1 Divide cups by minutes: $54 \div 9 = 6$ cups per minute.

Author's Note

A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 7 practice tests is a real promise that you kept to yourself. That matters. ◇

⋆ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ⋆

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

MASTER TODAY.
SUCCEED TOMORROW.

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 comprehensive assessments.

With 7 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.

7 PRINTED TESTS

+

2 ONLINE TESTS

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 concepts aligned with standards through meaningful practice.

Test Confidence
Become familiar with test formats and improve accuracy and speed.

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.

7 FULL-LENGTH PRINTED TESTS

STANDARDS-ALIGNED PRACTICE

DETAILED ANSWER KEYS & EXPLANATIONS