

New Jersey

NJSLA

GRADE 6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



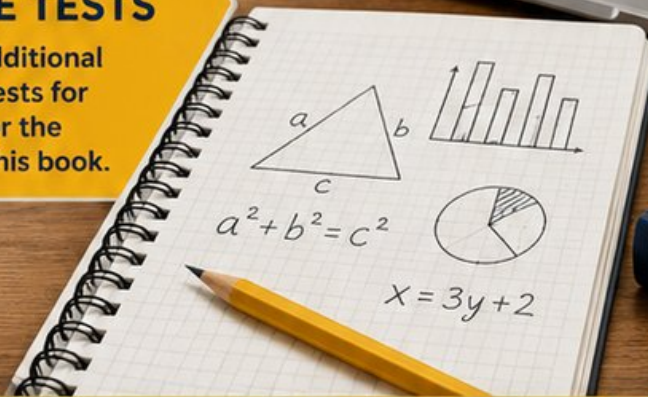
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



5 New Jersey NJSLA Grade 6 Math Practice Tests

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



Five 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.

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Welcome, New Jersey Math Explorer!

Eight focused rounds using shore-to-city test focus

This book gives you five 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.

Read

Plan

Check

How to Use This Book

A five-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	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.



Scan me!
For more practice
& answers

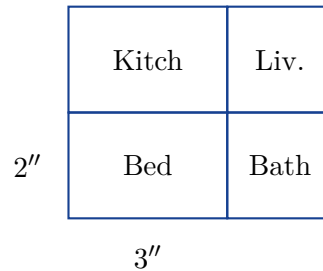
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- 1) A factory makes 504 widgets in 7 days. What is the rate in widgets per day?
- A. 60 widgets per day C. 72 widgets per day
 B. 70 widgets per day D. 511 widgets per day
- 2) A household has fixed expenses (rent, utilities) totaling \$1200 per month and variable expenses (groceries, gas) averaging \$500 per month. If monthly income is \$2000, how much is left for savings and discretionary spending?
- A. \$300 C. \$500
 B. \$400 D. \$700
- 3) A class has 40 students. Twelve students are in the chess club. What percent of the class is in chess club?
- A. 12% C. 30%
 B. 20% D. 40%
- 4) A bag contains 9 marbles. If the probability of drawing a green marble is $\frac{1}{3}$, how many green marbles are in the bag?



5) Below is a floor plan of a small house with a scale of 1 inch = 8 feet.



What is the actual length of the bedroom (shown as 3 inches in the drawing)?

- A. 16 feet C. 24 feet
 B. 20 feet D. 32 feet
- 6) A recipe uses flour, sugar, and butter in the ratio 3 : 2 : 1. If you use 2 cups of sugar, how much flour do you need?
- A. 2 cups C. 4 cups
 B. 6 cups D. 3 cups
- 7) Which pair of statements both describe the same ratio?

Statement X: The ratio of first part to second part is 6 : 4.

Statement Y: For every 3 units of the first part there are 2 units of the second part.

- A. Yes, they describe the same ratio. C. They cannot be compared.
 B. No, they describe different ratios. D. Only Statement X is a valid ratio.



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For more practice
& answers

8) An appliance store has two refrigerators on sale. Model A costs \$480 for a 20-cubic-foot unit. Model B costs \$600 for a 30-cubic-foot unit. Which has the better price per cubic foot?

- A. Model A at \$24/cu ft
- B. Model A at \$32/cu ft
- C. Model B at \$20/cu ft
- D. Model B at \$21/cu ft

9) A teacher records the number of pages read by 11 students in a class. The stem-and-leaf plot shows:

Stem	Leaf
10	2, 5, 8
11	0, 3, 6, 9
12	1, 4, 7, 8

How many more students read at least 110 pages than read fewer than 110 pages?

10) A juice company mixes orange juice and pineapple juice in a 4 : 3 ratio. If the company uses 12 gallons of orange juice, how much pineapple juice is needed?

Orange Juice (gal)	Pineapple Juice (gal)
4	3
8	6
12	?

- A. 7
- B. 8
- C. 9
- D. 10

- 1) A video game has a level that is completed if the player earns no less than 500 points. Which inequality describes the qualifying score s ?
- A. $s < 500$ C. $s \geq 500$
 B. $s \leq 500$ D. $s > 500$
- 2) Store daily sales (in dollars): mean = \$500, median = \$480. Which day was likely a special event?
- A. A day with very low sales below the median C. A day with very high sales above the median
 B. A day with sales exactly at the mean D. Cannot be determined
- 3) A bag of letter tiles contains 5 A's, 3 E's, and 2 I's. If one tile is drawn at random, what is the probability that it is **not** an A?
- A. $\frac{1}{10}$ C. $\frac{3}{5}$
 B. $\frac{1}{2}$ D. $\frac{5}{10}$
- 4) A teacher examines a stem-and-leaf plot and notices that all leaves for a particular stem are identical (e.g., stem 5 has leaves 3, 3, 3, 3). What does this indicate about the data?
- A. The data is not properly organized C. The plot must contain an error
 B. Several data values are the same D. All data must be in the same range (repeated data points)



1) What is $3,672 \div 18$?

A. 202

C. 204

B. 206

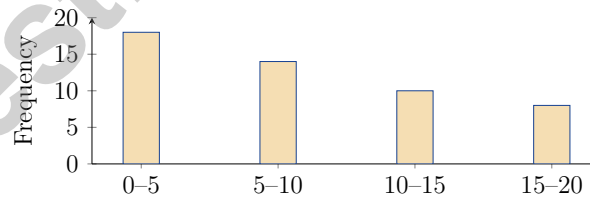
D. 214

2)

Notebooks Purchased	Total Cost (\$)
3	12
5	20
8	k

Use the table to find the cost per notebook and calculate the value of k when 8 notebooks are purchased.

3) The histogram below shows a data distribution. Which statement is accurate?



A. The distribution is skewed left

C. The distribution is symmetric

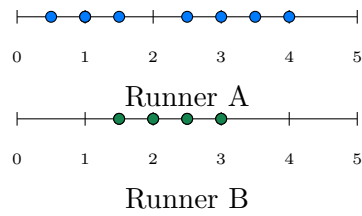
B. The distribution is bimodal

D. The distribution is skewed right



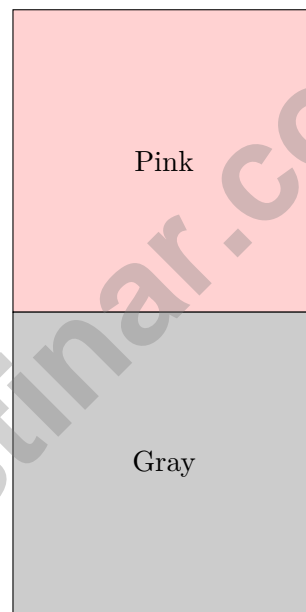
Scan me!
For more practice
& answers

4) Two runners' sprint times (seconds) over 8 races. Which runner has more consistent sprint times?



- A. Runner A
- B. Runner B
- C. Both are equally consistent
- D. Cannot determine from dot plots

5)



A square is chosen at random from the grid. What is the probability that it is pink?

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

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

Practice Test 1 Answers and Explanations

- Choice C is correct.** (6.RP.A.1) Divide total widgets by days: $504 \div 7 = 72$ widgets per day.
- Choice A is correct.** (6.EE.C.9) Total expenses: $\$1200 + \$500 = \$1700$. Remaining: $\$2000 - \$1700 = \$300$.
- Choice C is correct.** (6.RP.A.3) $\frac{12}{40} = \frac{3}{10} = \frac{30}{100} = 30\%$ (simplify, then write as a fraction with denominator 100).
- The correct answer is 3.** (6.NS.B.3) Number of green marbles = $\frac{1}{3} \times 9 = 3$.
- Choice C is correct.** (6.RP.A.3) Use the scale: 3 inches \times 8 feet/inch = 24 feet.
- Choice D is correct.** (6.RP.A.1) Use the order flour:sugar:butter. Sugar is the 2-part amount, and it is 2 cups, so one ratio part is 1 cup. Flour is 3 parts, or 3 cups.
- Choice A is correct.** (6.RP.A.3) Simplify 6 : 4 by dividing both parts by 2 to get 3 : 2. Statement Y says the same thing in words, so the two statements match.
- Choice C is correct.** (6.RP.A.2) Model A costs $480 \div 20 = \$24$ per cubic foot. Model B costs $600 \div 30 = \$20$ per cubic foot, so Model B has the better price per cubic foot.
- The correct answer is 5.** (6.SP.B.4) Fewer than 110 pages: 102, 105, 108, so 3 students. At least 110 pages: 110, 113, 116, 119, 121, 124, 127, 128, so 8 students. The difference is $8 - 3 = 5$.
- Choice C is correct.** (6.RP.A.3) The ratio is 4 : 3. When orange is 12 (multiply by 3), pineapple is $3 \times 3 = 9$ gal.
- Choice D is correct.** (6.RP.A.3) Using the equation $y = 2.5x$, when $x = 12$: $y = 2.5(12) = 30$. So $k = 30$.
- Choice B is correct.** (6.RP.A.3) 0.5% of $\$300,000 = 0.005 \times 300,000 = \$1,500$.
- Choice A is correct.** (6.RP.A.3) Ratio 5 : 3 with width 12 means each part is $12 \div 3 = 4$ feet. Length is $5 \times 4 = 20$ feet.
- Choice C is correct.** (6.RP.A.3) Multiply: $0.75 \times 1000 = 750$ grams.
- Choice A is correct.** (6.SP.B.4) Bank A: $I = \$200 \times 0.05 \times 3 = \30 . Bank B: $I = \$200 \times 0.03 \times 4 = \24 . Bank A earns \$30, which is \$6 more than Bank B's \$24.
- Choice B is correct.** (6.NS.A.1) $\frac{4}{7} \times \frac{7}{2} = \frac{28}{14} = 2$.
- Choice A is correct.** (6.NS.B.2) $7,020 \div 30 = 234$. Verify: $30 \times 234 = 7,020$.
- Choice B is correct.** (6.NS.B.3) Add: $12.4 + 11.8 + 13.2 = 37.4$ s.
- The correct answer is IQR and middle 50%.** (6.SP.B.5) (A) $IQR = Q3 - Q1 = 45 - 20 = 25$. (D) By definition, the middle 50% of data falls between $Q1$ and $Q3$. (B) is false because the box plot is not definitely symmetric. (C) is false because the range is $80 - 10 = 70$, not 75. (E) is false because $30 - 20 = 10$ while $45 - 30 = 15$, showing asymmetry.
- Choice C is correct.** (6.NS.B.4) List what both numbers share evenly: candidates include 12, since $24 = 12 \times 2$ and $36 = 12 \times 3$. Nothing larger divides both cleanly, so the GCF settles at 12.
- Choice C is correct.** (6.NS.B.4) Find GCF(12, 18). Factors of 12: 1, 2, 3, 4, 6, 12. Factors of 18: 1, 2, 3, 6, 9, 18. GCF is 6. She can make 6 piles with 2 red shirts and 3 blue shirts each.
- Choice B is correct.** (6.NS.C.5) Starting at 0: $+50 - 35 + 20 = 35$ points.
- Choice D is correct.** (6.SP.B.4) The absolute value $|-45| = 45$ feet represents the magnitude of depth below sea level.
- Choice D is correct.** (6.SP.B.4) Point Q is located at the half-tick between -2 and -1 , which is $-1\frac{1}{2}$.
- Choice B is correct.** (6.NS.C.8) To estimate closeness, compare the absolute values of the coordinates. The point $(3, -2)$ has the smallest coordinate values ($|3| = 3$ and $|-2| = 2$), making it closest to the origin $(0, 0)$.
- The correct answer is 112.** (6.NS.A.1) 28% of 400 is $0.28 \times 400 = 112$ students.



Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 5 tests is like 5 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)

FOR MORE PRACTICE TESTS AND LEARNING RESOURCES



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STAY
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SOLVE
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SUCCEED
BRIGHTLY

PREPARE TODAY. **SUCCEED TOMORROW!**