

# 8

# New Jersey

# NJSLA

## GRADE 6

# MATH

# PRACTICE TESTS

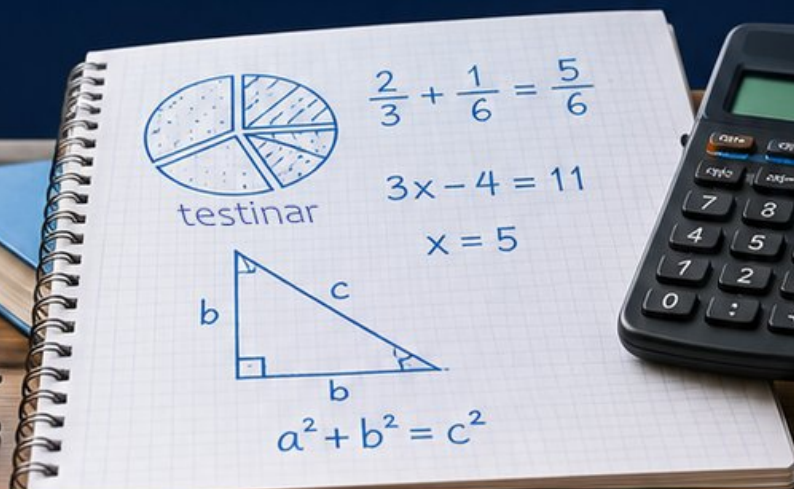
8  
PRINTED  
TESTS

+

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



You've  
Got  
This!



BUILT FOR  
ACAP SUCCESS



REALISTIC TESTS  
& QUESTION TYPES



STRENGTHEN  
MATH SKILLS



REVIEW, PRACTICE,  
AND IMPROVE

# 8 New Jersey NJSLA Grade 6 Math Practice Tests

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



Eight 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 eight 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 eight-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.
Tests 7–8	Final stamina rounds 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

# Table of Contents

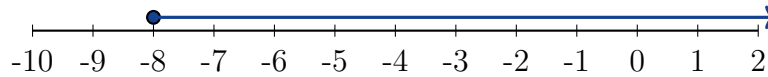
★ Practice Test 1	_____	14
★ Practice Test 2	_____	30
★ Practice Test 3	_____	46
★ Practice Test 4	_____	61
★ Practice Test 5	_____	78
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5) A roller coaster requires riders to be at least 48 inches tall. Which inequality describes the height  $h$  (in inches) needed to ride?

- A.  $h < 48$ 
 C.  $h \leq 48$   
 B.  $h > 48$ 
 D.  $h \geq 48$

6) Which graph shows the solution to  $-8 \leq x$ ?



- A. Closed circle at  $-8$ , arrow left
  C. Closed circle at  $-8$ , arrow right  
 B. Open circle at  $-8$ , arrow left
  D. Open circle at  $-8$ , arrow right



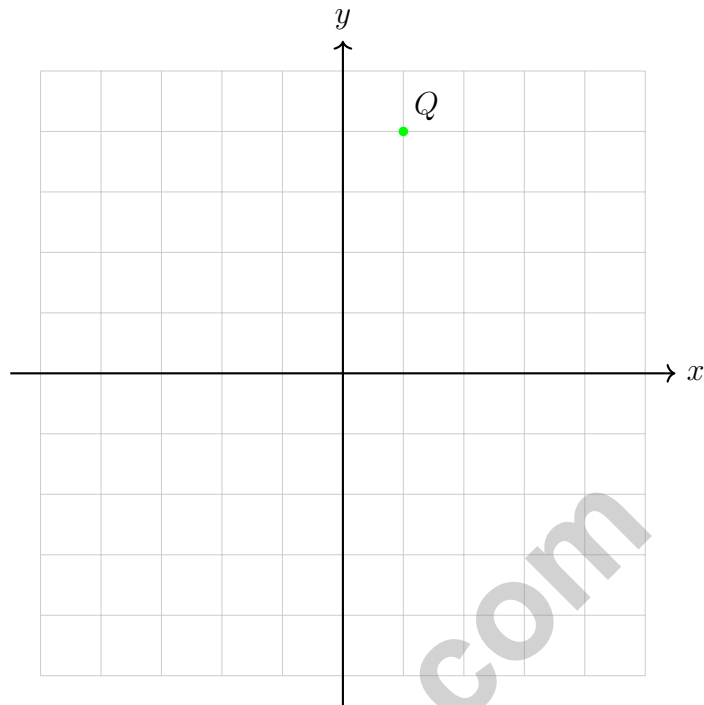
7)

A submarine is 650 feet below sea level. Which expression represents this depth using absolute value?

- A.  $|-650|$ 
 C.  $-650$   
 B.  $|650|$ 
 D.  $650$



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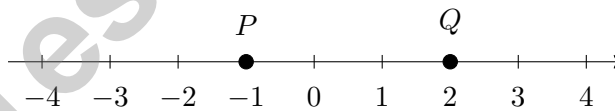


8)

If point  $Q$  is reflected across the  $x$ -axis, what are the new coordinates?

- |                                        |                                       |
|----------------------------------------|---------------------------------------|
| <input type="checkbox"/> A. $(1, 4)$   | <input type="checkbox"/> C. $(-1, 4)$ |
| <input type="checkbox"/> B. $(-1, -4)$ | <input type="checkbox"/> D. $(1, -4)$ |

9)



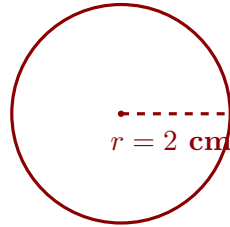
What is the relationship between points  $P$  and  $Q$ ?

- |                                                    |                                     |
|----------------------------------------------------|-------------------------------------|
| <input type="checkbox"/> A. $P > Q$                | <input type="checkbox"/> C. $P = Q$ |
| <input type="checkbox"/> B. $P$ is 3 units greater | <input type="checkbox"/> D. $P < Q$ |

- 1) A container holds 2 gallons of water. How many pints are in the container? (Use 1 gallon = 8 pints.)
- A. 10 pints                       C. 24 pints  
 B. 16 pints                       D. 8 pints
- 2) A dot plot shows the data: ● ● ● ● at 5, ● ● at 7, and ● at 11. What is the range?
- A. 4                                   C. 7  
 B. 5                                   D. 6
- 3) A rectangular aquarium has volume 50 liters, width  $\frac{5}{2}$  dm, and height 4 dm. Find the length.
- A. 2 dm                               C. 10 dm  
 B. 20 dm                               D. 5 dm
- 4) The mean of five numbers is 25. Four of the numbers are 20, 22, 28, 30. What is the fifth number?



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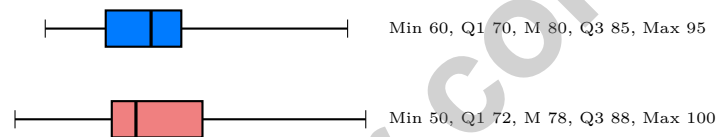


5)

The radius of this circle is 2 cm. What is the approximate area using  $\pi \approx 3.14$ ?

- A. 6.28 cm<sup>2</sup>                       C. 25.12 cm<sup>2</sup>  
 B. 12.56 cm<sup>2</sup>                     D. 50.24 cm<sup>2</sup>

6) Two box plots show test scores. Which class has more variability in the upper half (above the median)?



B

- A. Class A (Q3 – Median = 5)                       D. Cannot be determined from box plots  
 B. Class B (Q3 – Median = 10)  
 C. Both have equal variability



1) A triangle has vertices at  $(0, 0)$ ,  $(6, 0)$ , and  $(3, 4)$ . What is the length of the base?

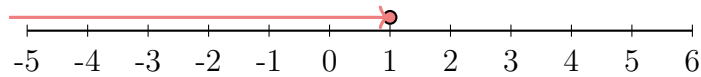
A. 4 units

C. 6 units

B. 5 units

D. 7 units

2) A scientist records the number line below. Which describes what the graph shows?



A.  $x > 1$

C.  $x \geq 1$

B.  $x < 1$

D.  $x \leq 1$

3) Comparing two triangles: Triangle A has base 20 inches and height 3 inches. Triangle B has base 10 inches and height 6 inches. Which has the larger area?

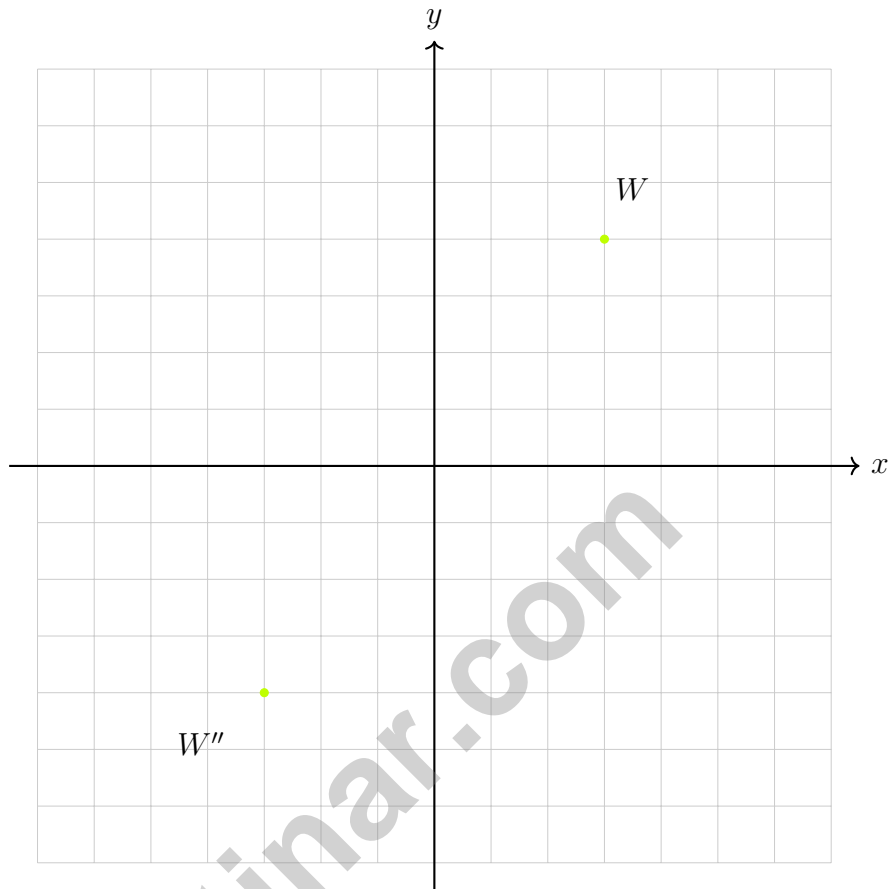
A. Triangle A by  $10 \text{ in}^2$

C. They have equal areas.

B. Triangle B by  $10 \text{ in}^2$

D. Triangle A by  $20 \text{ in}^2$





4)

If point  $W$  is at  $(3, 4)$  and point  $W''$  is at  $(-3, -4)$ , what transformation(s) would move  $W$  to  $W''$ ?

- A. Reflection across the  $x$ -axis only       C. Reflection across both axes  
 B. Reflection across the  $y$ -axis only       D. Reflection across the origin



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**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 eight 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.SP.B.4)** Stem 12 (representing 12.1 to 12.9) has 5 leaves: 1, 3, 5, 7, 9, giving 5 runners.
- 2) **The correct answer is 11.** **(6.EE.B.6)** The total is  $2 \times 4 + 3 = 11$ .
- 3) **Choice B is correct.** **(6.EE.C.9)** The independent variable is what you control or choose. Time is chosen first; distance depends on time.
- 4) **Choice B is correct.** **(6.EE.B.5)** Subtract 3.5 from both sides:  $x = 9.2 - 3.5 = 5.7$ .
- 5) **Choice D is correct.** **(6.EE.B.8)** "At least 48" means 48 or more, which is written as  $h \geq 48$ .
- 6) **Choice C is correct.** **(6.EE.B.8)**  $-8 \leq x$  is equivalent to  $x \geq -8$ . The closed circle includes  $-8$ , and the arrow points right toward greater values.
- 7) **Choice A is correct.** **(6.SP.B.4)** Below sea level is represented by a negative number:  $-650$ . The absolute value  $|-650| = 650$  represents the magnitude of the depth.
- 8) **Choice D is correct.** **(6.NS.C.8)** Point  $Q$  is at  $(1, 4)$ . When reflected across the  $x$ -axis, the  $x$ -coordinate stays the same and the  $y$ -coordinate changes sign, giving  $(1, -4)$ .
- 9) **Choice D is correct.** **(6.NS.C.7)**  $P$  is at  $-1$  and  $Q$  is at  $2$ . Since  $-1 < 2$ , point  $P$  is less than point  $Q$ .
- 10) **Choice C is correct.** **(6.NS.B.3)** Negative times negative equals positive:  $(-8) \times (-3) = 24$ .
- 11) **Choice B is correct.** **(6.EE.A.3)** Using less means:  $3 - 2 = 1$  cup of flour.
- 12) **Choice C is correct.** **(6.G.A.3)** Length  $= 6 - 1 = 5$  units; width  $= 6 - 2 = 4$  units. Area  $= 5 \times 4 = 20$  square units.
- 13) **Choice C is correct.** **(6.G.A.4)** Lateral surface area  $=$  perimeter  $\times$  height  $= (6 + 7 + 7) \times 9 = 20 \times 9 = 180 \text{ cm}^2$ .
- 14) **Choice A is correct.** **(6.NS.C.8)** Reflecting over the  $x$ -axis negates the  $y$ -coordinate. If the image is  $(4, -3)$ , the original is  $(4, 3)$ .
- 15) **The correct answer is 100.** **(6.G.A.1)**  $A = \frac{1}{2} \times 25 \times 8 = 100 \text{ ft}^2$ .
- 16) **Choice D is correct.** **(6.SP.B.5)** Dataset A range  $= 9 - 5 = 4$ . Dataset B range  $= 14 - 2 = 12$ . Dataset B is much more spread out.
- 17) **Choice A is correct.** **(6.NS.B.3)** Total socks  $= 10$ . Black socks  $= 4$ . Probability  $= \frac{4}{10} = 0.4$ .
- 18) **Choice C is correct.** **(6.NS.A.1)** 34% of 450 is  $0.34 \times 450 = 153 \approx 150$  items. (Note: exact percentages round to 22.222...% and 33.333...%.)
- 19) **Choice B is correct.** **(6.RP.A.3)** Year 4 shows sales of 3 (at height 3), and year 5 shows sales of 2.8 (at height 2.8). Since  $2.8 < 3$ , sales decreased from year 4 to year 5.
- 20) **Choice D is correct.** **(6.RP.A.3)** Start with flour to sugar:  $12 : 8$ . Divide both parts by the GCF, 4, to get  $3 : 2$ .
- 21) **Choice B is correct.** **(6.RP.A.1)** Divide ounces by pounds:  $64 \div 4 = 16$  ounces per pound.
- 22) **The correct answer is A uses the division method; E verifies the answer..** **(6.NS.A.1)** A correctly divides:  $4 \div \frac{1}{3} = 12$  bottles. E checks:  $12 \times \frac{1}{3} = 4$  gallons. B multiplies but gets total juice, not bottle count. C divides backwards. D is conceptually sound but cumbersome.
- 23) **The correct answer is 120.** **(6.G.A.1)** Area  $= 15 \times 8 = 120$  square inches.
- 24) **Choice D is correct.** **(6.RP.A.3)**  $\frac{4}{5} = \frac{80}{100} = 0.8 = 80\%$ .
- 25) **Choice B is correct.** **(6.EE.C.9)** The ratio cost/notebooks  $= 3/1 = 6/2 = 9/3 = 12/4 = 3$ . The constant ratio confirms proportionality, and the equation is  $c = 3n$ .
- 26) **Choice B is correct.** **(6.RP.A.3)** Divide:  $16 \text{ m} \div 8 \text{ cm} = 2 \text{ m per cm}$ . Scale is  $1 \text{ cm} = 2 \text{ m}$ .



Scan me!  
For more practice  
& answers

**Notes From Your Math Builder**

---

**Hi, Math Builder!**

◇ Through 8 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

**Builder's Tools**

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

**Builder tip:** on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Builder

# MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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

★ 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.



### Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS