

# 6

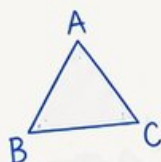
# New Jersey NJSLA

GRADE  
**6**  
MATH

## PRACTICE TESTS

Standards-Aligned  
Steady Southern  
Problem Solving for  
Comprehensive  
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.  
GAIN CONFIDENCE.  
**SUCCEED!**



### 6 PRINTED TESTS

Realistic practice to build confidence and mastery



### 2 ONLINE TESTS

Extra practice for continued success



### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



### 6 PRINTED TESTS +2 ONLINE TESTS

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



### PRACTICE

Sharpen skills with targeted practice tests



### REVIEW

Understand concepts and strengthen skills



### SUCCEED

Build confidence and achieve your best

# 6 New Jersey NJSLA Grade 6 Math Practice Tests

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



Six 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 six 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 six-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 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	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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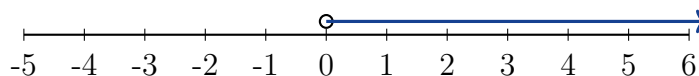
- 1) The mean of three numbers is 15. If two of the numbers are 12 and 18, what is the third?
- A. 12                                       C. 18  
 B. 24                                       D. 15
- 2) A student earns \$8 per hour. If the student works  $h$  hours, which expression shows the total earnings?
- A.  $h + 8$                                        C.  $8h$   
 B.  $h - 8$                                        D.  $\frac{8}{h}$
- 3) Which step would you use first to solve  $4x = 20$ ?
- A. Add 4 to both sides                       C. Divide both sides by 4  
 B. Subtract 4 from both sides               D. Multiply both sides by 4
- 4) A baker needs more than 2 cups of sugar but no more than 4 cups. Which pair of inequalities matches this, using  $s$  for cups?

Condition	Meaning
More than 2 cups	$s > 2$
No more than 4 cups	$s \leq 4$

- A.  $s > 2$  and  $s \leq 4$                        C.  $s < 2$  and  $s > 4$   
 B.  $s \geq 2$  and  $s < 4$                        D.  $s \leq 2$  and  $s \geq 4$



5) Which graph correctly represents  $x > 0$ ?



- A. Open circle at 0, arrow left
- B. Closed circle at 0, arrow right
- C. Open circle at 0, arrow right
- D. Closed circle at 0, arrow left

6) Which student correctly evaluated  $|-7|$ ?

- A. Jordan:  $|-7| = -7$  because it is negative
- B. Sam:  $|-7| = 14$  because you add the digits
- C. Alex:  $|-7| = 0$  because opposites cancel
- D. Maya:  $|-7| = 7$  because absolute value is the distance from zero

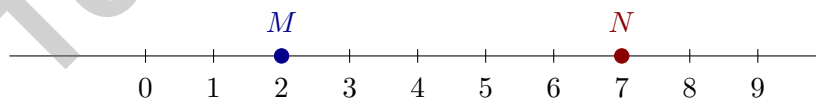
7) Which number is located farthest from 0 on a number line?

- A. -4
- B. -1.5
- C. 2.5
- D. 3

8) What is the  $x$ -coordinate of any point on the positive  $y$ -axis?

- A. Any positive number
- B. Any negative number
- C. Zero
- D. One

9)



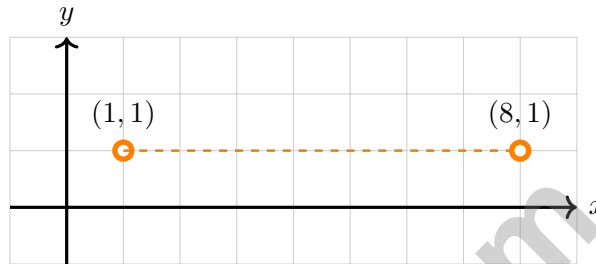
Which equation is correct?

- A.  $M = N$
- B.  $M > N$
- C.  $M + 4 = N$
- D.  $M < N$



Scan me!  
For more practice & answers

10) After simplifying  $8y + 3 - 2y + 5y - 1$ , what is the coefficient of  $y$ ?



11)

What is the distance between  $(1, 1)$  and  $(8, 1)$ ?

- A. 6 units                       C. 8 units  
 B. 7 units                       D. 9 units

12) What is  $\frac{30}{-5}$ ?

- A. 6                                       C. 25  
 B. -6                                       D. -25

13) In a football game, a team gained 12 yards on one play and lost 8 yards on the next play. What was the net yardage change?

- A. 4 yards                               C. -20 yards  
 B. -4 yards                               D. 20 yards



$$(3 \times 2)^2$$

Parentheses:  $3 \times 2 = 6$

Exponent:  $6^2 = 36$

1)

What is the correct value of  $(3 \times 2)^2$ ?

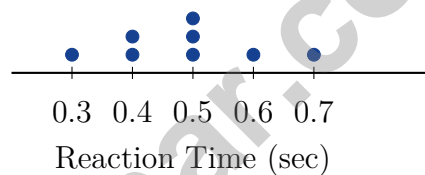
A. 12

C. 36

B. 18

D. 72

- 2) A dot plot shows reaction times (in seconds) for a reaction test: 0.3, 0.4, 0.4, 0.5, 0.5, 0.5, 0.6, 0.7. What is the mode of this data?



A. 0.4 seconds

C. 0.6 seconds

B. 0.7 seconds

D. 0.5 seconds

- 3) A bag contains only red and green marbles. There are 12 red marbles and the probability of drawing red is  $\frac{3}{5}$ . How many marbles are in the bag altogether?

A. 15

C. 20

B. 18

D. 25



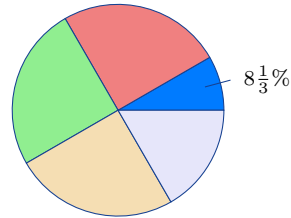
4) Raw data: 71, 78, 75, 82, 79, 81, 76, 83. If organized in a stem-and-leaf plot, what is the value of the 4th data point when listed in order?

A. 76

C. 79

B. 78

D. 81



5)

A hospital surveyed 600 patients. The circle graph shows  $8\frac{1}{3}\%$  rated care as excellent. How many patients rated care as excellent?

A. 50

C. 60

B. 40

D. 75

6) Which display would be BEST for showing a student's growth in math test scores over an entire school year?

A. Line graph

C. Bar graph of categories

B. Circle graph

D. Pictograph



Scan me!  
For more practice  
& answers

- 1) A table is missing a value. Which number is most likely the missing value if the ratio is 3 : 8?

First Quantity	Second Quantity
6	16
9	?

- A. 20
- B. 24
- C. 18
- D. 25
- 2) Store X sells 3 items for \$15. Store Y sells 5 items for \$20. Which store has the lower unit price?

- A. Store X
- B. Store Y
- C. They are the same
- D. Cannot be determined

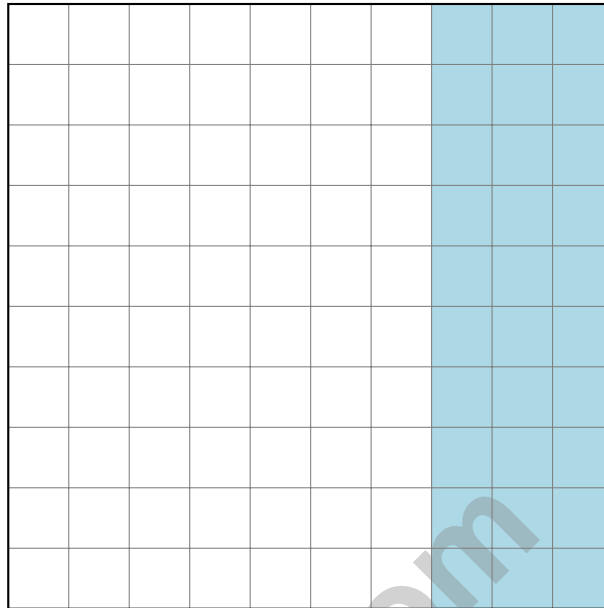
- 3) A grocery store has two options for buying apples:

- Option A: 6 apples for \$4.80
- Option B: 8 apples for \$6.40

Which option has the lower unit price per apple?

- A. Both options cost the same per apple
- B. Option A has the lower unit price
- C. Option B has the lower unit price
- D. It is impossible to compare without more information





4)

What fraction is shaded?

- A.  $\frac{3}{10}$
- B.  $\frac{3}{100}$

- C.  $\frac{30}{70}$
- D.  $\frac{30}{100}$

5) A table shows the relationship between the number of items purchased and the total cost.

<b>Items</b>	2	4	6	8
<b>Cost (\$)</b>	10	20	30	40

What is the constant of proportionality?

- A.  $\frac{10}{2} = 5$
- B.  $\frac{2}{10} = 0.2$

- C.  $\frac{4}{20} = 0.2$
- D.  $\frac{30}{8} = 3.75$



Scan me!  
For more practice  
& answers

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

### Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (6.SP.A.2) Mean =  $\frac{12 + 18 + x}{3} = 15 \Rightarrow 12 + 18 + x = 45 \Rightarrow x = 15$ .
- 2) **Choice C is correct.** (6.EE.B.6) Earnings = hourly rate  $\times$  hours worked =  $8 \times h = 8h$ .
- 3) **Choice C is correct.** (6.EE.B.5) To undo multiplication, divide. This isolates  $x$  on the left side.
- 4) **Choice A is correct.** (6.EE.B.8) "More than 2" gives  $s > 2$ . "No more than 4" gives  $s \leq 4$ . Together:  $s > 2$  and  $s \leq 4$ .
- 5) **Choice C is correct.** (6.EE.B.8)  $x > 0$  excludes 0 (open circle) and includes all positive numbers (arrow points right).
- 6) **Choice D is correct.** (6.SP.B.4) Error analysis: Jordan confused absolute value with the original number. Absolute value  $|-7| = 7$  represents distance, which is always non-negative.
- 7) **Choice A is correct.** (6.SP.B.4) Distance from zero is the absolute value.  $|-4| = 4$ ,  $|-1.5| = 1.5$ ,  $|2.5| = 2.5$ ,  $|3| = 3$ . The greatest distance is 4.
- 8) **Choice C is correct.** (6.NS.C.8) All points on the  $y$ -axis, including the positive  $y$ -axis, have  $x = 0$ .
- 9) **Choice D is correct.** (6.NS.C.7)  $M = 2$  and  $N = 7$ . Since  $2 < 7$ , we have  $M < N$ .
- 10) **The correct answer is 11.** (6.EE.A.3) Combine  $y$  terms:  $8y - 2y + 5y = 11y$ .
- 11) **Choice B is correct.** (6.NS.C.8) Same  $y$ -coordinate (1):  $|8 - 1| = 7$  units.
- 12) **Choice B is correct.** (6.NS.B.3) Positive divided by negative is negative:  $\frac{30}{-5} = -6$ .
- 13) **Choice A is correct.** (6.EE.A.3) Net change is gain plus loss:  $12 + (-8) = 4$  yards gained.
- 14) **Choice B is correct.** (6.EE.A.1)  $3^3 = 3 \times 3 \times 3 = 27$ . A cubic exponent (power of 3) means multiply the base by itself 3 times.
- 15) **Choice D is correct.** (6.EE.A.3) Substitute:  $2(3) + 5(2) = 6 + 10 = 16$ .
- 16) **Choice D is correct.** (6.G.A.3) The left side goes from (2, 3) to (2, 7). Length =  $7 - 3 = 4$  units.
- 17) **Choice B is correct.** (6.G.A.1) The formula for a triangle is Area =  $\frac{1}{2} \times$  base  $\times$  height. The student multiplied base and height but forgot the  $\frac{1}{2}$  factor. The correct area =  $\frac{1}{2} \times 8 \times 6 = 24$  square units.
- 18) **Choice B is correct.** (6.G.A.4)  $SA = 6s^2 = 384 \Rightarrow s^2 = 64 \Rightarrow s = 8$  cm. Volume =  $s^3 = 8^3 = 512$  cm<sup>3</sup>.
- 19) **The correct answer is 15 + 30 and 5(9) = 45.** (6.NS.B.4)  $5(3+6) = 5 \cdot 3 + 5 \cdot 6 = 15 + 30 = 45$ . Also,  $5(3+6) = 5(9) = 45$ . Thus Choices A and C are correct. Choice B gives 21, Choice D gives 19, and Choice E gives 54.
- 20) **The correct answer is 36.** (6.EE.C.9) Multiply  $3 \times 12 = 36$ .
- 21) **Choice B is correct.** (6.NS.C.8) Reflection over the  $x$ -axis negates the  $y$ -coordinate:  $(-2, 3) \rightarrow (-2, -3)$ .
- 22) **The correct answer is 24.** (6.G.A.1) Solving:  $84 = \frac{1}{2} \times b \times 7 \Rightarrow b = 24$  m.
- 23) **Choice A is correct.** (6.SP.A.2) Without 200: sum =  $5 + 7 + 8 + 9 + 10 = 39$ , mean =  $39/5 = 7.8$ . Decrease:  $39.83 - 7.8 = 32.03$ . The outlier dramatically pulled the mean up.
- 24) **Choice B is correct.** (6.SP.B.4) The frequency of 15 messages is 8, and the frequency of 20 messages is 4. Since  $8 = 2 \times 4$ , 15 has double the frequency of 20.
- 25) **Choice B is correct.** (6.SP.B.5) Class B has a smaller range ( $25 < 30$ ) and smaller IQR ( $8 < 12$ ), indicating less spread and more consistent times.
- 26) **Choice D is correct.** (6.NS.B.3) Hearts in deck = 13. Total cards = 52. Probability =  $\frac{13}{52} = \frac{1}{4}$ .
- 27) **Choice A is correct.** (6.SP.B.4) With 8 data points (even), the median is the average of the middle two values: positions 4 and 5. If the median is 67, then  $(value_4 + value_5)/2 = 67$ .



**A Note From Your Math Friend**

---

**Hi, Math Star!**

◇ Wow! You finished 6 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 6 tests, you learned that trying is the most important thing. ★

**Look What You Did!**

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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 Friend

# PRACTICE 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 6 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.

6  
PRINTED  
TESTS

+  
2  
ONLINE  
TESTS

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ BUILD SKILLS.  
GAIN CONFIDENCE.  
SUCCEED!

## 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.



6 FULL-LENGTH  
PRINTED TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS