



# 6

# New Jersey

# NJSLA



# GRADE 5 MATH

## PRACTICE TESTS

Complete Standards-Based Practice  
— for Grade 5 Math Success —



$5^2 = 25$



**6 FULL-LENGTH  
PRACTICE TESTS**  
Realistic style questions



**STANDARDS-BASED  
PRACTICE**  
Covers all Grade 5  
Math standards

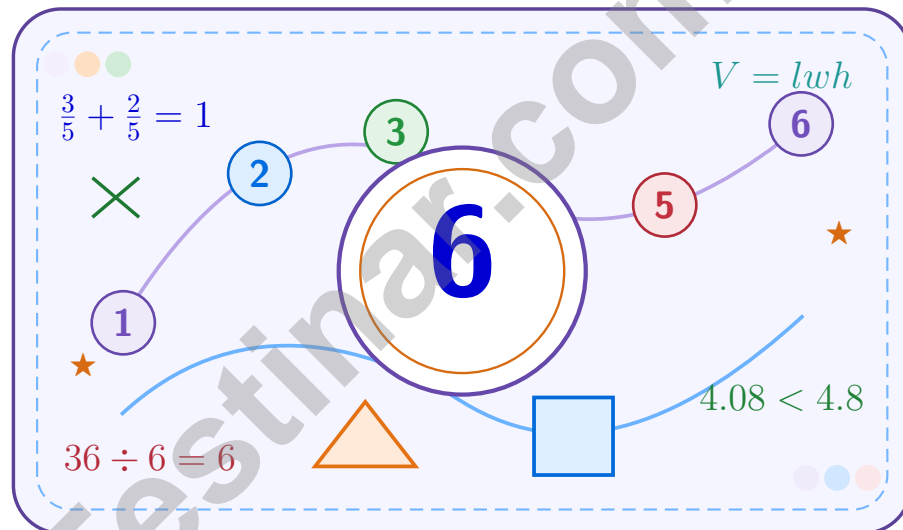


**BUILD CONFIDENCE.  
IMPROVE SCORES.**  
Target weak areas and  
achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

# 6 New Jersey NJSLA Grade 5 Math Practice Tests

*A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round*



**Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.**

**Jay Daie and Reza Nazari**



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# Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

## To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

### Try

Give each problem your best thinking.

### Check

Study mistakes and learn what happened.

### Rise

Bring that lesson into the next round.

**A strong habit for every page:** read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

# How to Use This Book

A simple practice routine that turns six tests into steady growth

**Step 1: Warm Up**

**Start with the quick review.**  
Spend a few minutes refreshing the ideas before you start a test.

**Step 2: Take the Test**

**Take one full practice test.**  
Work in a quiet space and let accuracy matter more than speed.

**Step 3: Study the Pattern**

**Check your work honestly.**  
Circle missed questions and notice patterns in the mistakes.

**Step 4: Learn, Then Retry**

**Read the explanation and try again.**  
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

**A Six-Week Climb Map**

Week	Mission Focus
<b>Week 1</b>	Take Test 1 and review any place-value or operation slips.
<b>Week 2</b>	Take Test 2 and focus on showing neat, easy-to-read work.
<b>Week 3</b>	Take Test 3 and give extra time to fractions or decimals if needed.
<b>Week 4</b>	Take Test 4 and slow down on word problems and units.
<b>Week 5</b>	Take Test 5 and compare your score and habits with earlier rounds.
<b>Week 6</b>	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



# Test Overview

## What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the New Jersey NJSLA. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

### Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

### Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

**What strong work looks like:** the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



# Table of Contents

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Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

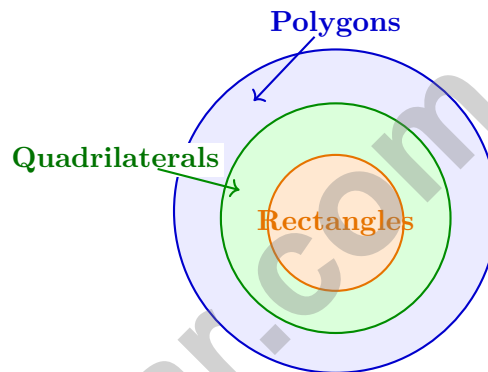
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1 day = 24 hours (hr)    1 year = 52 weeks



- 1) A science kit box measures 6 meters long, 7 meters wide, and 7 meters tall. What is its volume?
- A. 42 cubic meters                       C. 20 cubic meters  
 B. 49 cubic meters                       D. 294 cubic meters
- 2) A Venn diagram has a large circle for polygons, a smaller circle for quadrilaterals inside it, and a smaller circle for rectangles inside the quadrilaterals circle. Where should a square be placed?



- A. Inside polygons only                       C. Outside all three circles  
 B. Inside all three circles                       D. Inside quadrilaterals only
- 3) A student wrote  $(6 \times 4) + (6 \times 3)$  to model buying 4 red pens and 3 blue pens at \$6 each. What does the expression show?
- A. Sum of costs for red and blue pens  
 B. Difference in cost between red and blue pens  
 C. Cost of 7 red pens  
 D. Cost of 4 pens total



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1) Write the expanded form of 2.34 using place values.

A.  $2 + 3 + 4$

C.  $2 + 0.03 + 0.4$

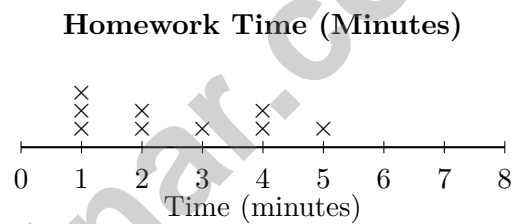
B.  $20 + 30 + 4$

D.  $2 + 0.3 + 0.04$

2) Convert:  $750 \text{ cm} = ? \text{ m}$ .

*Record your answer in the space provided.*

3) The line plot shows the time (in minutes) students spent on math homework:



How many students spent 2 minutes on math homework?

A. 1 student

C. 3 students

B. 2 students

D. 4 students

4) Estimate:  $7.9 \div 2.1$ . Which is the best estimate?

A. 2

C. 6

B. 4

D. 8



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1) Convert to improper fractions and subtract:  $5\frac{2}{5} - 2\frac{3}{5}$ .

A.  $\frac{12}{5}$

B.  $\frac{40}{5}$

C.  $\frac{16}{5}$

D.  $\frac{14}{5}$

2) A bakery packages cookies in containers. There are 29 containers with 16 cookies each. How many cookies are packaged?

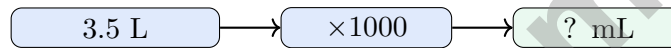
A. 460

B. 480

C. 470

D. 464

3) A water bottle holds 3.5 liters. How many milliliters is that?



A. 350 mL

B. 3,500 mL

C. 35,000 mL

D. 350,000 mL



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

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1 day = 24 hours (hr)    1 year = 52 weeks



1) Which shows 56.789 rounded to different places?

Rounding to	Result
Nearest whole	57
Nearest tenth	56.8
Nearest hundredth	56.79

Which choice best describes the table?

- A. The nearest whole row is incorrect       C. The nearest hundredth row is incorrect  
 B. The nearest tenth row is incorrect       D. All rows are correct

2) What pattern is shown in the input-output table?

$x$	$y$
0	5
1	7
2	9
3	11

- A. Start at 5 and add 1 each row       C. Start at 2 and add 3 each row  
 B. Start at 5 and add 2 each row       D. Multiply the input by 5



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(5.M.B.4)** Use the rectangular-prism volume formula:  $6 \times 7 \times 7 = 294$ . So the volume is 294 cubic meters.
- 2) **Choice B is correct.** **(5.G.B.4)** A square is a polygon, a quadrilateral, and a rectangle.
- 3) **Choice A is correct.** **(5.OA.A.2)** The first product,  $6 \times 4$ , shows the cost of the red pens. The second product,  $6 \times 3$ , shows the cost of the blue pens. Adding them gives the total cost.
- 4) **Choice A is correct.** **(5.NBT.A.2)** Dividing by 10 moves the decimal 1 place left:  $63.9 \div 10 = 6.39$ .
- 5) **Choice C is correct.** **(5.G.A.2)** The x-coordinate (4) is the number of hours, and the y-coordinate (32) is the number of cupcakes sold. So 32 cupcakes were sold.
- 6) **Choice B is correct.** **(5.NBT.A.2)** Dividing by 100 moves the decimal two places left, so 720 becomes 7.2.
- 7) **Choice C is correct.** **(5.OA.A.2)** Multiplication is commutative, which means the order of the factors can switch without changing the product. So  $9 \times 14$  and  $14 \times 9$  are equal.
- 8) **Choice C is correct.** **(5.NF.B.6)** The strip starts with one eighth, then shares that small amount into 3 parts. So the matching division equation is  $\frac{1}{8} \div 3 = ?$ .
- 9) **Choice D is correct.** **(5.G.B.3)** A quadrilateral with 2 pairs of parallel sides and 4 right angles is a rectangle. Since not all sides are equal, the best classification is rectangle rather than square.
- 10) **Choice A is correct.** **(5.OA.A.1)** Because 5 cookies were broken on each tray, find the unbroken cookies per tray first:  $24 - 5 = 19$ . With 3 trays, the expression is  $3 \times (24 - 5)$ .
- 11) **Choice A is correct.** **(5.NF.B.5)**  $4 \times \frac{1}{2} = 2$ . The product is less than 4 because the scaling factor is less than 1.
- 12) **The correct answer is 12.** **(5.M.A.1)** Convert meters to centimeters before dividing. Since 3 m is 300 cm and each piece is 25 cm,  $300 \div 25 = 12$  pieces.
- 13) **Choice C is correct.** **(5.NF.B.7)**  $13 \div \frac{1}{4} = 13 \times 4 = 52$ .
- 14) **The correct answer is 4.** **(5.NBT.A.1)** In the number 346,782, the digits from right to left are: ones (2), tens (8), hundreds (7), thousands (6), ten thousands (4), hundred thousands (3). Therefore, the digit in the ten thousands place is 4.
- 15) **The correct answer is 20.** **(5.NF.B.6)**  $5 \div \frac{1}{4} = 20$ . Each pound makes 4 quarter-pound loaves, so 5 pounds makes 20 loaves.
- 16) **Choice D is correct.** **(5.M.B.4)** Divide the volume by the base area:  $450 \div 50 = 9$ , so the height is 9 cm.
- 17) **Choice D is correct.** **(5.M.B.3)** One box has volume  $3 \times 3 \times 2 = 18$  cubic feet. Ten boxes have total volume  $18 \times 10 = 180$  cubic feet.
- 18) **Choice B is correct.** **(5.G.B.4)** Four equal sides makes it a rhombus. Without right angles, it cannot be a square.
- 19) **Choices A, B are correct.** **(5.NF.B.4)** Multiply the numerator by 3:  $\frac{2}{7} \times 3 = \frac{6}{7}$ . Since  $\frac{6}{7}$  is just less than one whole, both A and B are true.
- 20) **Choice C is correct.** **(5.NF.B.5)**  $1\frac{1}{2} \times \frac{3}{2} > 1$ , so the product is greater than 8.
- 21) **Choice B is correct.** **(5.NBT.A.3)** The digit 8 is in the hundredths place (third column from the left, or second position after the decimal point).
- 22) **Choice B is correct.** **(5.NBT.A.2)** Multiplying by 100 shifts the digits in 50 two places to greater place values:  $50 \times 100 = 5,000$ .
- 23) **Choice C is correct.** **(5.NF.A.1)** Convert to fourths:  $2\frac{2}{4} + 1\frac{3}{4} = 3\frac{5}{4} = 4\frac{1}{4}$  m.
- 24) **Choice C is correct.** **(5.NF.A.2)** The denominator increased from 7 to 14 (multiply by 2). Multiply the numerator by 2:  $5 \times 2 = 10$ .
- 25) **Choice C is correct.** **(5.M.B.4)** Multiply:  $4.5 \times 10 = 45$  meters of fencing needed.
- 26) **The correct answer is  $(25 + 4 \cdot 3) \div 2$ .** **(5.OA.A.2)** The product of 4 and 3 is  $4 \times 3$ ; add 25 to that product, then divide the entire result by 2.
- 27) **Choice B is correct.** **(5.NF.B.6)**  $\frac{4}{7} \times \frac{7}{12} = \frac{28}{84}$ , which simplifies to  $\frac{1}{3}$  meter.
- 28) **Choice B is correct.** **(5.M.B.4)** Area = length  $\times$  width =  $\frac{2}{3} \times \frac{1}{4} = \frac{2}{12} = \frac{1}{6}$  square yard.



### Composer's Final Notation

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## Greetings, Mathematical Composer!

★ Beautiful composition! You've written six complete mathematical symphonies, carefully arranging mathematical notes, creating harmonious solutions, and expressing elegant problem-solving like a master composer! Each problem was a musical piece requiring rhythm, structure, and creative expression. Your mathematical compositions have reached professional quality! ★

◇ **Here's what renowned composers understand:** creating beautiful music requires understanding musical theory, practicing techniques, and developing personal style. They compose numerous pieces, refining their craft with each creation. You've done exactly that through these six tests! Each test was a new composition, and you've developed your unique mathematical voice! ◇

#### Musical Review of Compositions

- **Melody Creation:** Your solution paths flow smoothly and logically!
- **Harmonic Balance:** You combine different methods beautifully!
- **Rhythm Precision:** You maintain steady pacing throughout tests!
- **Performance Ready:** Your compositions are ready for the grand concert!

**Remember this musical truth:** great composers trust their instincts when performing. After six complete compositions, your mathematical instincts are finely tuned. On test day, let your knowledge flow naturally like music. Don't overthink; trust the beautiful mathematical melodies you've composed through practice!

Want to share a particularly elegant mathematical composition or discuss solution harmonies? Send your musical works to [reza@testinar.com](mailto:reza@testinar.com). I appreciate mathematical artistry!

**Reza Nazari & Jay Daie**

Your Math Coaches for Accurate Work

# 6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★  
PRACTICE  
WITH PURPOSE.  
ACHIEVE WITH  
CONFIDENCE.

## WHAT'S INSIDE:



### 6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



### STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



### MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



### WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



### COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



### IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



## WHY PRACTICE MAKES A DIFFERENCE



### BUILD CONFIDENCE

Feel prepared and ready for any challenge.



### IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



### THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



### MANAGE TIME

Practice under timed conditions to build stamina.



### STAY MOTIVATED

Track progress and celebrate every win.



### ACHIEVE SUCCESS

Reach goals and unlock your full potential!



Visit [testinar.com/math5](https://testinar.com/math5)

for more Grade 5 math resources and practice materials!



**Testinar**

Smart Practice. Stronger Results.