

9

New Jersey

NJSLA

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

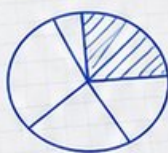
$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



9
FULL-LENGTH
PRACTICE
TESTS

$$2,345 \times 6 = 14,070$$



$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

$$7.2 \div 0.8 = 9$$



$$(12 + 8) \div 4 = 5$$



Build Confidence



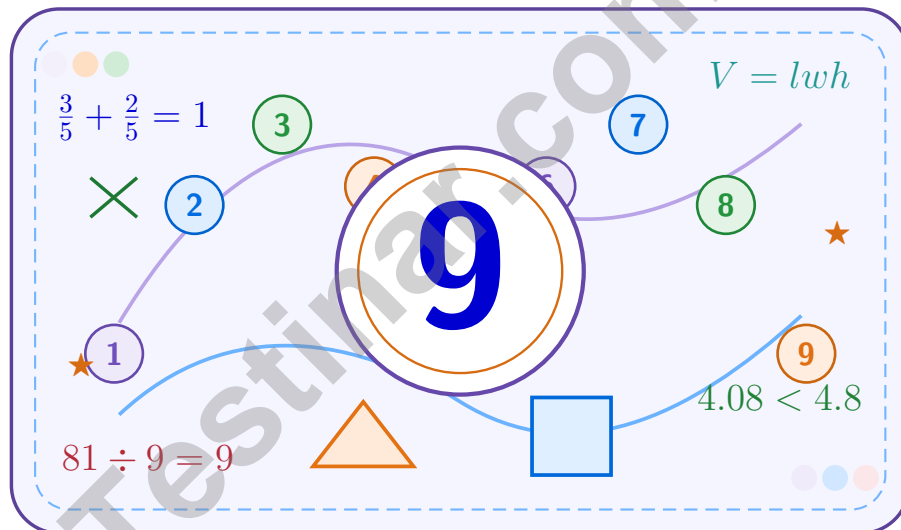
Improve Math Skills



Achieve Success

9 New Jersey NJSLA Grade 5 Math Practice Tests

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



Nine full tests, focused skill boosters, 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 nine 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 nine tests into steady growth

A Nine-Session Climb Map

Session	Mission Focus
1	Take Test 1; review place value and operation slips.
2	Take Test 2; keep work neat and easy to read.
3	Take Test 3; give extra time to fractions and decimals.
4	Take Test 4; slow down on word problems and units.
5	Take Test 5; compare scores and habits with earlier rounds.
6	Take Test 6; notice which habits are now automatic.
7	Take Test 7; explain open-ended answers clearly.
8	Take Test 8; review topics that still need attention.
9	Take Test 9; finish with calm, careful, confident work.

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.



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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.



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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)

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TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

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



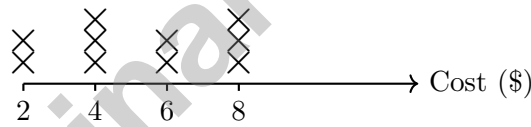
1) A composite art display is made from two non-overlapping rectangular prisms. Prism A is 7 meters long, 4 meters wide, and 4 meters tall. Prism B is 6 meters long, 2 meters wide, and 4 meters tall. What is the total volume?

- A. 112 cubic meters
- B. 48 cubic meters
- C. 188 cubic meters
- D. 160 cubic meters

2) A box weighs 3 lb 8 oz. What is its weight in ounces?

Record your answer in the space provided.

3) The line plot shows the cost of items at a flea market:



What is the total cost of all items?

- A. \$44
- B. \$48
- C. \$52
- D. \$56



- 4) The area of a square is found by multiplying side length by itself. If each side is $1\frac{1}{2}$ inches, what is the area?

	1	$\frac{1}{2}$
1	1	$\frac{1}{2}$
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$

Area: $1\frac{1}{2}$ in \times $1\frac{1}{2}$ in gives square inches

- A. $3\frac{1}{4}$ square inches
- B. 3 square inches
- C. $2\frac{1}{4}$ square inches
- D. $1\frac{1}{2}$ square inches
- 5) Add: $2\frac{1}{6} + 4\frac{5}{6}$
- A. $6\frac{1}{3}$
- B. 7
- C. $6\frac{5}{6}$
- D. $7\frac{1}{6}$
- 6) A student claims: “ $0.4 < 0.35$ because 0.4 has fewer decimal digits.” Is this reasoning correct?
- A. Yes, fewer digits always means smaller
- B. Cannot determine
- C. Yes, $0.4 < 0.35$ is always true
- D. No, the digits represent different place values
- 7) Subtract: $\frac{4}{9} - \frac{1}{6}$
- A. $\frac{5}{18}$
- B. $\frac{3}{3}$
- C. $\frac{3}{15}$
- D. $\frac{1}{3}$
- 8) A rectangular gift box measures 16 inches \times 12 inches \times 8 inches. What is the volume?
- A. 1280 in^3
- B. 1440 in^3
- C. 1536 in^3
- D. 1600 in^3



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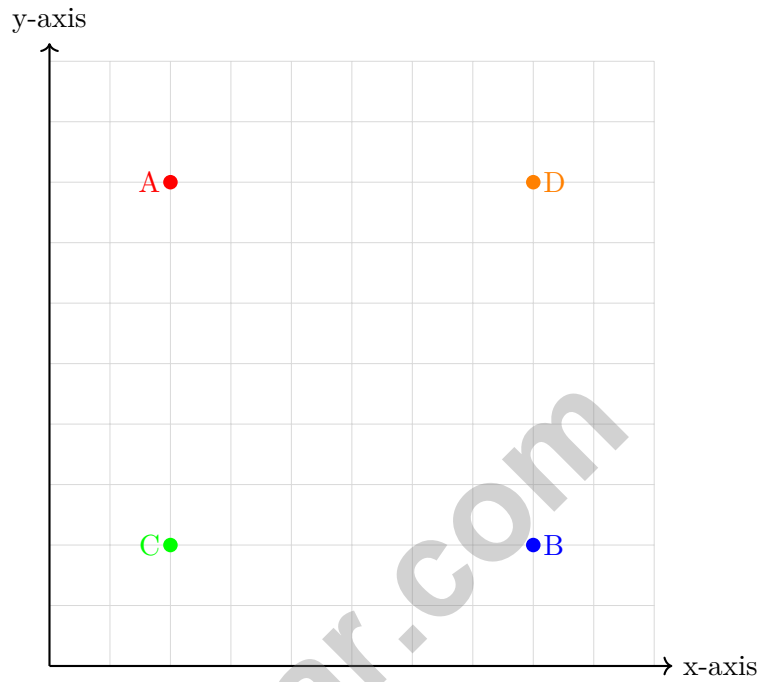
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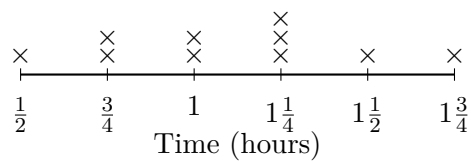
1) Which point is at (2, 8)?



- | | |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> A. Point B | <input type="checkbox"/> C. Point C |
| <input type="checkbox"/> B. Point A | <input type="checkbox"/> D. Point D |

2) The line plot displays reading time (in hours) spent on homework by 10 students:

Homework Reading Time



What is the most common reading time?

- | | |
|--|--|
| <input type="checkbox"/> A. $\frac{3}{4}$ hour | <input type="checkbox"/> C. $1\frac{1}{4}$ hours |
| <input type="checkbox"/> B. 1 hour | <input type="checkbox"/> D. $1\frac{1}{2}$ hours |



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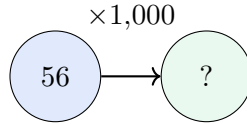
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1) Multiply: $\frac{1}{7} \times \frac{3}{4}$

- A. $\frac{3}{28}$
 B. $\frac{3}{11}$

- C. $\frac{4}{11}$
 D. $\frac{1}{11}$

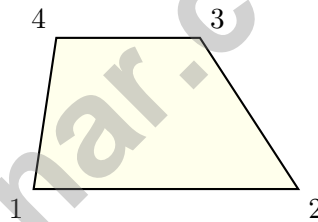
2) Calculate: $56 \times 1,000$



- A. 56,000
 B. 5,600

- C. 560
 D. 506,000

3) Look at the shape. How many obtuse angles does it have?



- A. 0
 B. 1

- C. 2
 D. 4

4) The model shows $\frac{1}{7}$ of a whole split into 3 equal parts. What fraction of the whole is each small part?

$\frac{1}{7}$ split into 3



1 whole split into 7 equal parts

- A. $\frac{1}{7}$
 B. $\frac{1}{3}$

- C. $\frac{1}{21}$
 D. $\frac{1}{10}$



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 New Jersey scores.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (5.M.B.2) Find each part first: Prism A is $7 \times 4 \times 4 = 112$ cubic meters, and Prism B is $6 \times 2 \times 4 = 48$ cubic meters. Because the parts do not overlap, add them: $112 + 48 = 160$ cubic meters.
- 2) **The correct answer is 56.** (5.M.A.1) Each pound has 16 ounces. Three pounds is $3 \times 16 = 48$ ounces, and $48 + 8 = 56$ ounces total.
- 3) **Choice C is correct.** (5.M.A.1) Add the costs shown by the marks: $(2 \times 2) + (4 \times 3) + (6 \times 2) + (8 \times 3) = 4 + 12 + 12 + 24 = 52$, so the total cost is \$52.
- 4) **Choice C is correct.** (5.NF.B.6) $1\frac{1}{2} \times 1\frac{1}{2} = \frac{3}{2} \times \frac{3}{2} = \frac{9}{4} = 2\frac{1}{4}$ square inches.
- 5) **Choice B is correct.** (5.NF.A.1) Add: $2\frac{1}{6} + 4\frac{5}{6} = 6\frac{6}{6} = 7$.
- 6) **Choice D is correct.** (5.NF.A.1) The reasoning is flawed. $0.4 = 0.40$, and 40 hundredths is greater than 35 hundredths. We must align place values, not count digits.
- 7) **Choice A is correct.** (5.NF.A.2) LCD = 18. $\frac{4}{9} = \frac{8}{18}$; $\frac{1}{6} = \frac{3}{18}$. $\frac{8}{18} - \frac{3}{18} = \frac{5}{18}$.
- 8) **Choice C is correct.** (5.NF.A.2) Volume = $16 \times 12 \times 8 = 192 \times 8 = 1536 \text{ in}^3$.
- 9) **Choice C is correct.** (5.M.B.3) Original: $4 \times 3 \times 4 = 48$. Remove one layer: height becomes 3. New volume: $4 \times 3 \times 3 = 36$ cubic units.
- 10) **Choice D is correct.** (5.M.B.4) The base area is $10 \times 6 = 60$ square feet. Since $360 \div 60 = 6$, the locker is 6 ft tall.
- 11) **Choice C is correct.** (5.M.B.4) $0.003 \times 10^4 = 0.003 \times 10000 = 30$. Moving decimal 4 places right gives 30.
- 12) **Choice D is correct.** (5.NF.B.6) $\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$, which simplifies to $\frac{3}{10}$ liter of sugar.
- 13) **Choice D is correct.** (5.G.A.2) Move 3 units right for the x-coordinate and 2 units up for the y-coordinate. Point P is at (3, 2), so P matches the description.
- 14) **Choice C is correct.** (5.NF.A.2) The denominator 4 becomes 8 (multiply by 2). Multiply numerator by 2: $3 \times 2 = 6$.
- 15) **The correct answer is $3\frac{5}{8}$.** (5.NF.A.2) $6\frac{1}{4} = 6\frac{2}{8} = 5\frac{10}{8}$. Subtract: $(5 - 2) + (\frac{10}{8} - \frac{5}{8}) = 3\frac{5}{8}$.
- 16) **Choice C is correct.** (5.NF.A.1) Simplify: $\frac{2}{8} = \frac{1}{4}$ and $\frac{2}{4}$ stays the same. $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$.
- 17) **Choice B is correct.** (5.NF.A.1) 8.29 has tenths=2 and hundredths=9. Since $9 \geq 5$, round tenths up: $2 \rightarrow 3$, giving 8.3. The other choices round to 8.2 or 8.4.
- 18) **Choice D is correct.** (5.M.A.1) Since 16 ounces = 1 pound, divide 32 by 16: $32 \div 16 = 2$ pounds.
- 19) **Choices A, B are correct.** (5.M.A.1) We are counting one-third scoops in 2 cups. A gives the division equation, and B is the related multiplication equation.
- 20) **Choice C is correct.** (5.M.A.1) Convert requirement to mm: 8,500 mm. Check: A = 8,400 mm (no), B = 8,700 mm (yes), C = 8,200 mm (no), D = 820,000 mm (yes). Only B and D meet it.
- 21) **The correct answer is 120.** (5.M.B.3) Use the rectangular-prism formula $V = l \times w \times h$. Multiply $8 \times 5 \times 3 = 120$ cubic units.
- 22) **Choice B is correct.** (5.M.B.3) Each step the multiplier gains one zero, and the product gains one zero too. So $25 \times 400 = 10,000$.
- 23) **Choice B is correct.** (5.NBT.A.2) Both expressions multiply 7 by a fraction. Since $\frac{2}{3} > \frac{1}{2}$, $7 \times \frac{2}{3}$ has the larger value.
- 24) **Choice A is correct.** (5.NF.B.5) Ben spends $12 + 5$ dollars each week. Since he does this for 3 weeks, multiply the weekly amount by 3: $3 \times (12 + 5)$.
- 25) **Choice B is correct.** (5.NBT.A.1) Reading the place-value chart: 3 in ones place, 2 in tenths, 5 in hundredths, 7 in thousandths gives 3.257.
- 26) **Choice C is correct.** (5.NF.B.5) New width: $2 \times \frac{3}{2} = 3$ m. New area: $5 \times 3 = 15 \text{ m}^2$. Scaling by $\frac{3}{2}$ increases the area by the same factor.
- 27) **Choice C is correct.** (5.NF.A.2) $\frac{5}{12} \approx \frac{1}{2}$ and $\frac{9}{17} \approx \frac{1}{2}$. So $\frac{5}{12} + \frac{9}{17} \approx \frac{1}{2} + \frac{1}{2} = 1$.
- 28) **Choice A is correct.** (5.M.B.4) Multiply: $3.50 \times 42 = 147.00$ dollars per week.
- 29) **Choice D is correct.** (5.M.B.4) $10^1 = 10$, so $\frac{2,800}{10^1} = 2,800 \div 10 = 280$.



Cheer Squad Final Pep Talk

Hey Math Superstar!

◇ 9 practice tests! That's a LOT of work, and you did it all! I'm cheering so loud right now you can probably hear me through this page. You've earned every clap, every hooray, and every smile. ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 9 times. That's why your confidence is real today. It's not pretend. You earned it, problem by problem. ★

Cheer Squad Roll Call

- **Effort:** 100% SHOWED UP!
- **Heart:** HUGE!
- **Skill:** STRONG and growing!
- **Spirit:** BRIGHT and bold!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I've got this. I've practiced. I'm ready." Tiny self-cheers make a big difference.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Cheerleader (Go You!)

PRACTICE MORE. ACHIEVE MORE.

Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

9

**FULL-LENGTH
PRACTICE
TESTS**

- ✓ Realistic.
- ✓ Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.



THIS BOOK HELPS YOUR CHILD:



Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



Track Progress

Identify strengths and target areas with purposeful practice.



Achieve Success

Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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