

9

New York

NYSTP

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

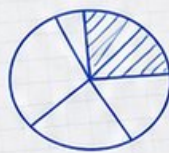
$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



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



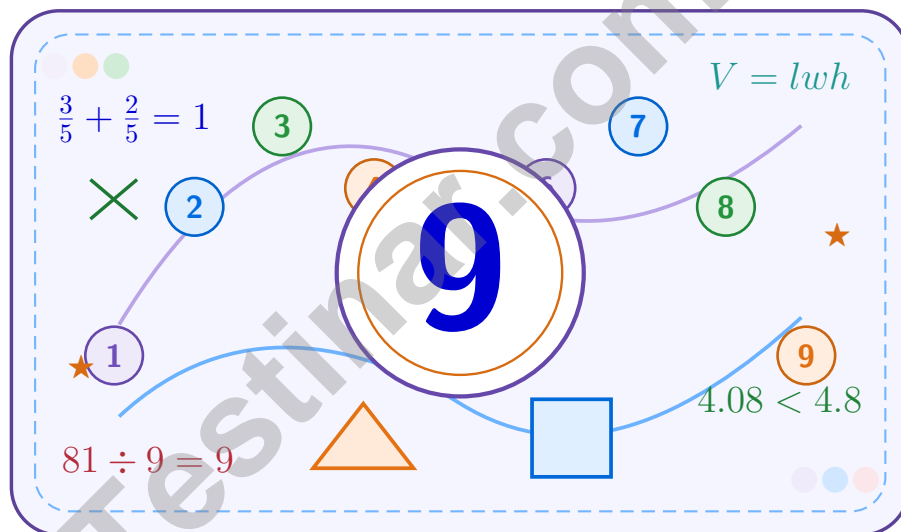
Improve Math Skills



Achieve Success

9 New York NYSTP 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.



Scan me

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 York NYSTP. 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)

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

TIME

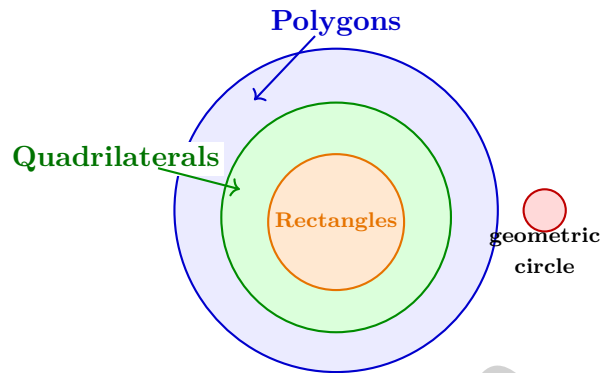
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A Venn diagram has a large circle for polygons. Inside it is a circle for quadrilaterals, and inside that is a circle for rectangles. Where should a geometric circle be placed?



- A. Outside all three circles
- B. Inside rectangles
- C. Inside quadrilaterals only
- D. Inside polygons only
- 2) Pattern A: 0, 5, 10, 15, 20. Pattern B: 0, 2, 4, 6, 8. For nonzero terms, each A value is how many times the matching B value?

Record your answer in the space provided.

- 3) Which expression represents adding 7 to 4×9 ?

- A. $7 + 4 + 9$
- B. $4 \times 9 + 7$
- C. $7 \times (4 + 9)$
- D. $4 \times (9 + 7)$



4) A country's annual production is 36×10^6 units. Write in standard form.

A. 360000

C. 3600000

B. 360000000

D. 36000000

5) Which calculation could help you find the width of a rectangular prism with volume 360 cm^3 , length 12 cm, and height 5 cm?

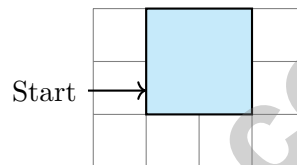
A. $360 \div (12 \times 5)$

C. $12 \times 5 \times 360$

B. $360 + 12 + 5$

D. $360 - 12 - 5$

6) A polygon is formed by connecting points on a grid. How many right angles does it have?



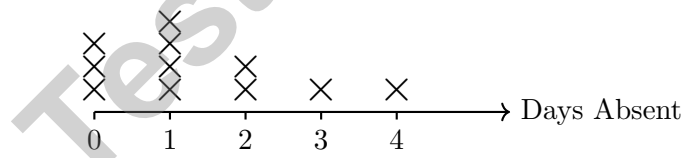
A. 3

C. 5

B. 4

D. 6

7) The line plot shows the number of days students were absent from school:



Which value appears most often?

A. 0 days

C. 2 days

B. 1 day

D. 3 days



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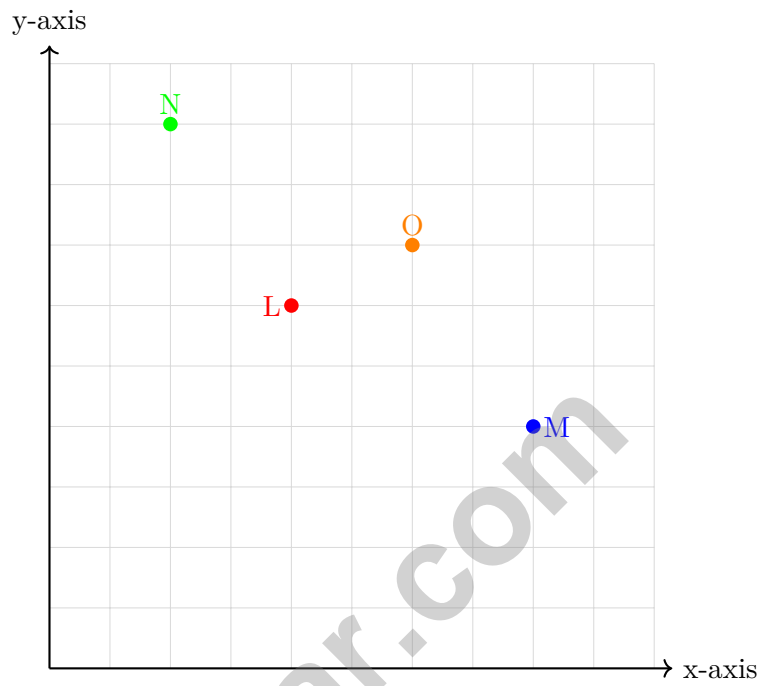
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1) Which point is highest on the grid?



- A. L
- B. M

- C. N
- D. O



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1) One sixth of a pizza is shared equally by 2 students. Which division equation finds each share?

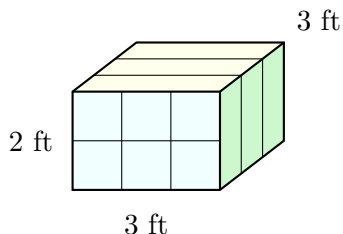
A. $2 \div \frac{1}{6} = n$

C. $2 + \frac{1}{6} = n$

B. $\frac{1}{6} \times 2 = n$

D. $\frac{1}{6} \div 2 = n$

2) How many cubic feet of space does a storage box with dimensions 3 ft × 3 ft × 2 ft contain?



A. 8 cubic feet

C. 18 cubic feet

B. 12 cubic feet

D. 24 cubic feet

3) The model shows 4 wholes, with each whole cut into pieces of size $\frac{1}{2}$. How many pieces of size $\frac{1}{2}$ are there in all?



4 wholes, each cut into pieces of size $\frac{1}{2}$

A. 6

C. 4

B. 2

D. 8



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1) A rectangular prism has volume 252 cm^3 . Its length is 18 cm and width is 7 cm. What is its height?

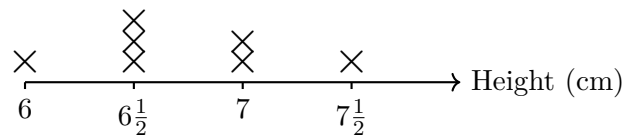
A. 3 cm

C. 4 cm

B. 2 cm

D. 5 cm

2) A line plot shows plant heights in centimeters:



What is the total height of all the plants?

Record your answer in the space provided.



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 York scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(5.G.4)** A geometric circle has a curved boundary, so it is not a polygon, a quadrilateral, or a rectangle.
- 2) **The correct answer is 2.5.** **(5.G.2)** For nonzero terms, $5 \div 2 = 2.5$, $10 \div 4 = 2.5$, and $15 \div 6 = 2.5$. Each A value is 2.5 times the matching B value.
- 3) **Choice B is correct.** **(5.G.2)** Start with the product 4×9 . Adding 7 to that product gives $4 \times 9 + 7$.
- 4) **Choice D is correct.** **(5.OA.2)** $36 \times 10^6 = 36 \times 1000000 = 36000000$ units.
- 5) **Choice A is correct.** **(5.NBT.2)** The known length and height make groups of $12 \times 5 = 60$ cubic centimeters. Divide the volume by 60: $360 \div 60 = 6$ cm.
- 6) **Choice B is correct.** **(5.G.3)** The polygon shown is a rectangle. It has 4 corners, and each corner is a right angle.
- 7) **Choice B is correct.** **(5.MD.2)** Count at each value: 0 days (3 marks), 1 day (4 marks), 2 days (2 marks), 3 days (1 mark), 4 days (1 mark). The most common value is 1 day with 4 occurrences.
- 8) **Choice C is correct.** **(5.OA.1)** First find the value inside the parentheses: $4 + 6 = 10$. Then $3 \times 10 = 30$, and $60 - 30 = 30$.
- 9) **Choice C is correct.** **(5.OA.1)** Front layer: 8 cubes. Depth of 3: $8 \times 3 = 24$ unit cubes total.
- 10) **Choice B is correct.** **(5.NF.2)** $\frac{3}{4}$ is close to 1, and $\frac{1}{5}$ is close to 0. So $\frac{3}{4} + \frac{1}{5} \approx 1 + 0 = 1$ cup.
- 11) **Choice C is correct.** **(5.NF.5b)** $\frac{1}{3} \times \frac{4}{7} = \frac{4}{21}$ (multiply numerators and denominators).
- 12) **Choice D is correct.** **(5.NF.4)** Two rows of $\frac{3}{8}$ each: $2 \times \frac{3}{8} = \frac{6}{8} = \frac{3}{4}$ (simplified).
- 13) **Choice A is correct.** **(5.NBT.3b)** Compare place by place: 0.06 (6 hundredths) < 0.16 (16 hundredths) < 0.6 (60 hundredths) < 0.66 (66 hundredths).
- 14) **Choice A is correct.** **(5.OA.2)** Yes. The parentheses make one sum, $(15 + 9)$, and dividing that sum by 3 means finding one third of it.
- 15) **Choice A is correct.** **(5.NBT.7)** Only A is true. B should be 6.01, C should be 7.93, and D should be 7.85.
- 16) **The correct answer is $3\frac{7}{8}$.** **(5.NBT.7)** Wholes: $2 + 1 = 3$. Fractions: $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$. Total: $3\frac{7}{8}$.
- 17) **Choice D is correct.** **(5.NF.1)** Compare the height at age 7 to the height at age 5. The child grew $120 - 108 = 12$ cm, so the total growth was 12 cm.
- 18) **Choice A is correct.** **(5.MD.5)** Use the rectangular-prism volume formula: $8 \times 5 \times 7 = 280$. So the volume is 280 cubic centimeters.
- 19) **The correct answer is 114 m^3 .** **(5.MD.5c)** The first prism is $7 \times 3 \times 4 = 84$ cubic meters. The second is $5 \times 3 \times 2 = 30$ cubic meters. Together they make 114 cubic meters.
- 20) **Choice D is correct.** **(5.G.2)** The first coordinate, 4, matches the x-axis label: hours worked. The second coordinate, 12, matches the y-axis label: yards mowed. So the point means yards mowed is 12 when hours worked is 4.
- 21) **Choices A, B are correct.** **(5.NF.5b)** Multiplying by a factor less than 1 makes a number smaller, while multiplying by a factor greater than 1 makes it larger. Choices C and D reverse that scaling rule.
- 22) **Choice C is correct.** **(5.NBT.2)** A and B both equal 7.5. Choice C equals 0.75, and D equals 0.0075.
- 23) **Choice B is correct.** **(5.NBT.2)** $15 \times 23 = 345$. Use repeated subtraction or long division: $345 \div 15 = 23$.
- 24) **Choice C is correct.** **(5.NBT.6)** Lengths longer than $\frac{1}{2}$ yard are $\frac{3}{4}$ and 1 yard. The plot shows $1 + 4 = 5$ such ribbons.
- 25) **Choice B is correct.** **(5.OA.1)** Go from the inside out: $10 - 7 = 3$, then $[2 + 3] = 5$, and finally $8 \times 5 = 40$.
- 26) **Choice A is correct.** **(5.OA.1)** LCD of 6, 4, and 3 is 12. $\frac{1}{6} = \frac{2}{12}$, $\frac{1}{4} = \frac{3}{12}$, $\frac{1}{3} = \frac{4}{12}$.
- 27) **The correct answer is $\frac{8}{20}$.** **(5.NF.2)** Multiply numerator and denominator by 4: $\frac{2 \times 4}{5 \times 4} = \frac{8}{20}$.
- 28) **Choice A is correct.** **(5.NF.2)** To find the missing number, divide: $3.7 \div 100 = 0.037$.
- 29) **Choice B is correct.** **(5.NBT.2)** Check the table: $3 \times 2 - 1 = 5$, $3 \times 3 - 1 = 8$, and $3 \times 5 - 1 = 14$.
- 30) **Choice D is correct.** **(5.NBT.2)** 10^2 means 10×10 , or 100. So Student A is correct because $3 \times 100 = 300$.
- 31) **Choice C is correct.** **(5.MD.5a)** Volume = $20 \times 12 \times 6 = 1440$ cubic inches.



Notes From the Math Gardener

Dear Math Gardener,

◇ Look at how much you've grown! 9 practice tests is like 9 seasons of planting and harvesting. Each problem was a seed, each effort was water, and each "aha!" was sunshine. Your math garden is strong now—and it shows. ◇

★ **What gardeners know:** growth is steady, not sudden. You don't see roots growing, but they are. You don't always feel yourself getting smarter, but you are. The proof is in the questions you can solve today that felt impossible 9 tests ago. ★

Garden Inspection Report

- **Roots (foundation):** DEEP! Your basic skills are solid.
- **Stems (structure):** STURDY! Your problem-solving steps hold up.
- **Leaves (skills):** LUSH! You have many strategies to draw on.
- **Flowers (confidence):** BLOOMING! You believe in your skills.

Gardener's wisdom: keep watering your math garden long after the test. Every habit you built (read carefully, plan, check) will grow with you for years. The test is just one harvest. Your garden keeps growing.

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 Gardener (Keep Growing!)

PRACTICE MORE. ACHIEVE MORE.

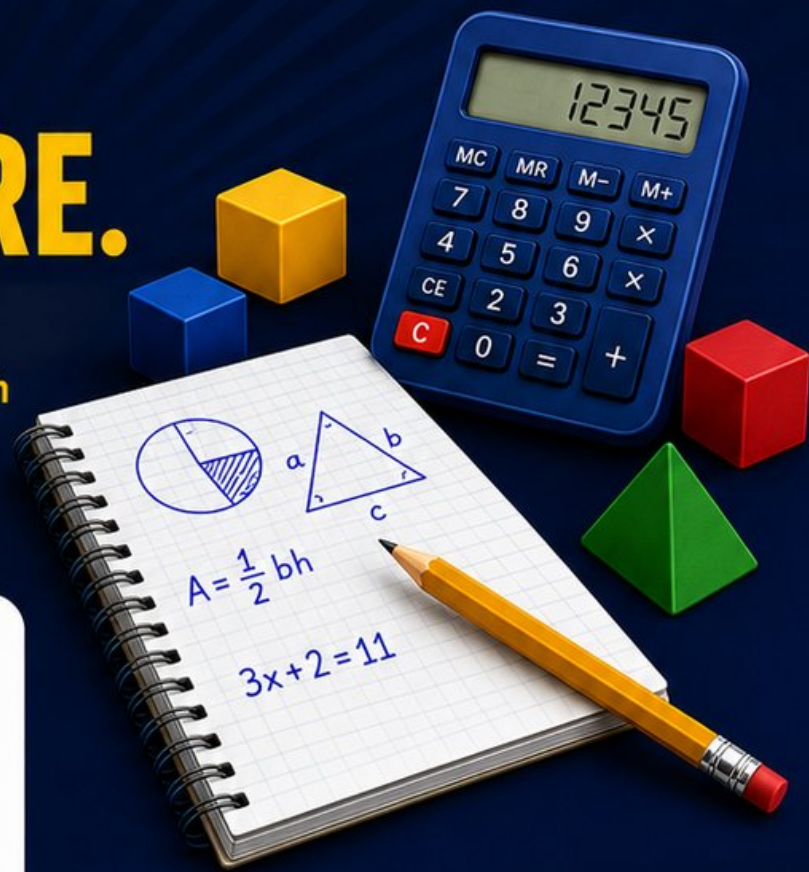
Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

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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Aligned to Standards



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