

9

Missouri

MAP

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

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

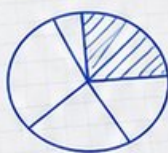
$$y = 2x + 1$$



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



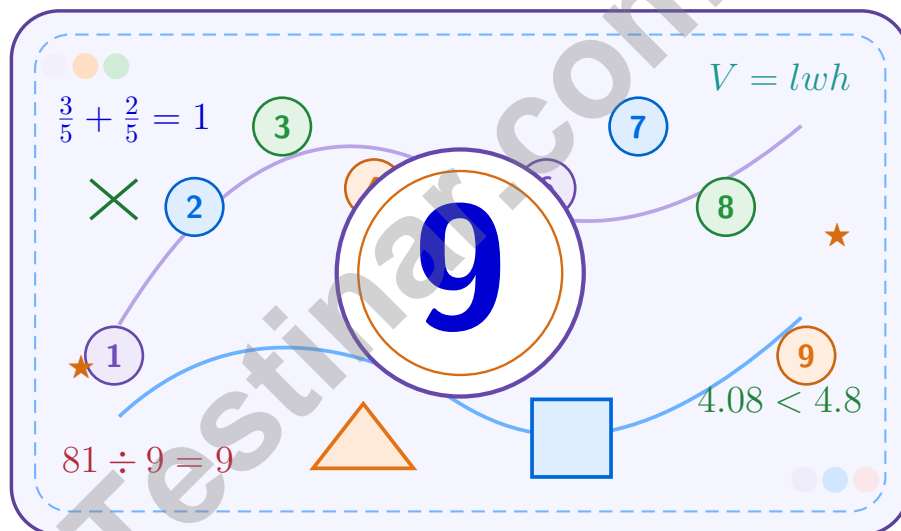
Improve Math Skills



Achieve Success

9 Missouri MAP 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



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

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 Missouri MAP. 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

★ Practice Test 1	_____	14
★ Practice Test 2	_____	29
★ Practice Test 3	_____	44
★ Practice Test 4	_____	60
★ Practice Test 5	_____	75
★ Practice Test 6	_____	90
★ Practice Test 7	_____	103
★ Practice Test 8	_____	121
★ Practice Test 9	_____	136
Practice Test Answer Keys	_____	151
Practice Test Answers and Explanations	_____	157

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 ribbon is 32.5 cm long. If you divide it into 10 equal pieces, what is the length of each piece?

- A. 325 cm
 B. 32.5 cm

- C. 3.25 cm
 D. 0.325 cm

2) A prism has 48 unit cubes. Its dimensions are 6 units by 4 units. What is the height?

- A. 2 units
 B. 8 units

- C. 4 units
 D. 6 units

3) Seeds cost \$3 per pound. You buy $\frac{2}{3}$ pound of seeds. How much do you spend?

- A. \$1
 B. \$3

- C. \$2.50
 D. \$2

4) Pattern table:

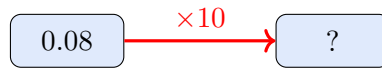
x	y
1	2
2	5
3	8
4	?

What is the rule and the missing output?

- A. Multiply the input by 3, then subtract 1; output 11
 B. Add 1 to the input; output 5
 C. Double the input; output 8
 D. Multiply the input by 3; output 12

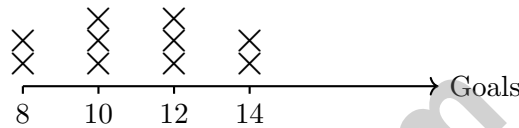


5) The arrow diagram shows a relationship between two numbers. What is the missing number?



- A. 0.008
- B. 80
- C. 8
- D. 0.8

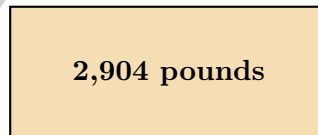
6) The line plot shows the number of goals scored by soccer players in a season:



If each player plays the same number of games and each goal in a game is worth 1 point, how many total goals were scored?

- A. 125 goals
- B. 115 goals
- C. 120 goals
- D. 110 goals

7) A farmer ships 2,904 pounds of apples in crates that hold 44 pounds each. How many crates are filled?



$$\begin{aligned} &\div 44 \text{ pounds per crate} \\ &= ? \text{ crates} \end{aligned}$$

- A. 64
- B. 66
- C. 68
- D. 70



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

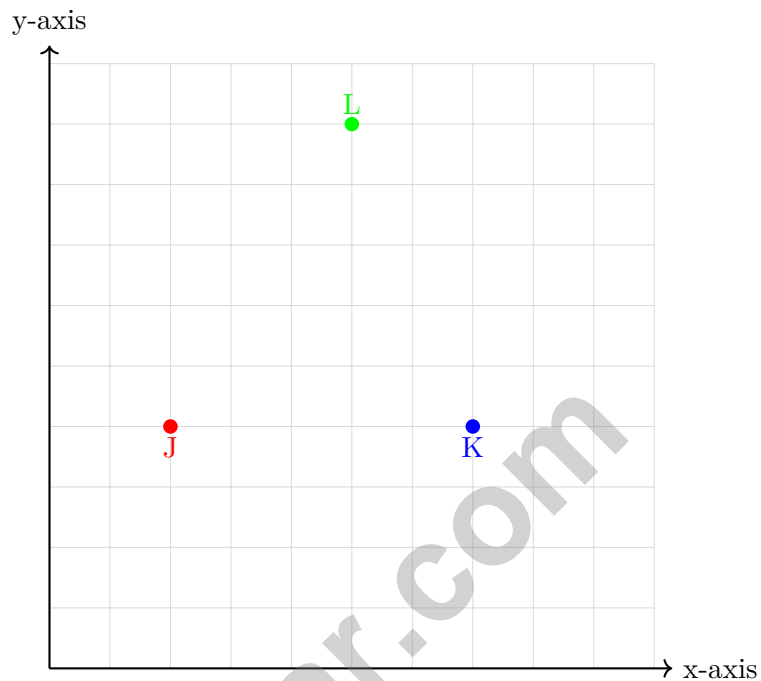
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) Which two points have the same y-coordinate?



- A. J and K
- B. J and L
- C. K and L
- D. All three
- 2) A rectangular prism is built with a base of $8 \text{ cm} \times 7 \text{ cm}$ and a height of 6 cm . Which expression finds the volume?
- A. $(8 \times 7) + 6$
- B. $(8 \times 7) \times 6$
- C. $8 + 7 + 6$
- D. $8 + 7 \times 6$
- 3) Find the product: 400×600 .

Record your answer in the space provided.



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

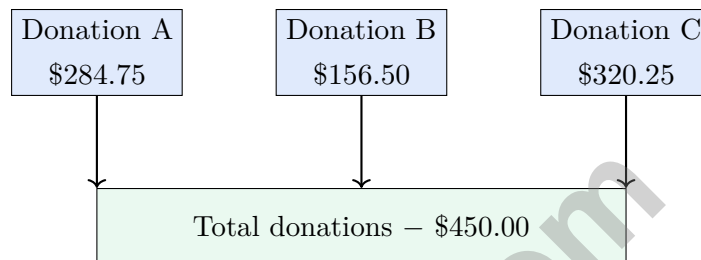
1 day = 24 hours (hr) 1 year = 52 weeks



1) A baker made 12.345 kg of dough. Break this number into its place values.

- A. $1 + 2 + 0.3 + 0.04 + 0.005$ C. $10 + 2 + 0.3 + 0.4 + 0.5$
 B. $12 + 0.3 + 0.04 + 0.005$ D. $12 + 3 + 4 + 5$

2) A library fundraiser collected three donations: \$284.75, \$156.50, and \$320.25. The library spends \$450.00 on new books. How much money is left?



- A. \$301.50 C. \$321.50
 B. \$761.50 D. \$311.50
- 3) A solid figure has volume 30 cubic units. If it is 5 cubes long and 3 cubes wide, how tall is it?

Record your answer in the space provided.

4) Which reasoning explains the zeros in 12×50 ?

- A. 12×50 has no zeros because 12 has no zeros. C. 12×50 must have 3 zeros because $12 \times 5 = 60$.
 B. 12×50 must have 1 zero because only 50 has a zero. D. $12 \times 5 = 60$, then multiply by 10 to get 600.



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) Which product equals $\frac{6}{35}$?

A. $\frac{1}{6} \times \frac{6}{35}$

B. $\frac{3}{5} \times \frac{2}{5}$

C. $\frac{6}{7} \times \frac{1}{7}$

D. $\frac{2}{5} \times \frac{3}{7}$

2) Which expression correctly shows how to find $\frac{1}{6}$ divided by 4?

A. $\frac{1}{6} \times 4$

B. $\frac{1}{6} \times \frac{1}{4}$

C. $\frac{1}{6} + 4$

D. $4 \div \frac{1}{6}$

3) Pattern S: 4, 8, 12, 16. Pattern T: 8, 16, 24, 32. Which describes the relationship?

S	T
4	8
8	16
12	24
16	32

A. $T = S + 5$

B. $T = S + 9$

C. $T = S \times 2 + 1$

D. $T = 2 \times S$

4) Evaluate: $100 \div (20 - 15) + 4$

A. 24

B. 9

C. 14

D. 20

5) Compare: $(45 \div 5) + 10$ \square $45 \div (5 + 10)$

A. $>$

B. $<$

C. $=$

D. Cannot tell



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 Missouri scores.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(5.NBT.A.4)** Dividing the length by 10: $32.5 \div 10 = 3.25$ cm. Each piece is 3.25 cm.
- 2) **Choice A is correct.** **(5.NBT.A.4)** The base has $6 \times 4 = 24$ unit cubes. Since $48 \div 24 = 2$, the prism has 2 layers, so the height is 2 units.
- 3) **Choice D is correct.** **(5.GM.B.4)** $\frac{2}{3} \times 3 = \frac{6}{3} = 2$ dollars.
- 4) **Choice A is correct.** **(5.NF.B.6)** Check the rows: $3 \times 1 - 1 = 2$, $3 \times 2 - 1 = 5$, $3 \times 3 - 1 = 8$, and $3 \times 4 - 1 = 11$.
- 5) **Choice D is correct.** **(5.NBT.A.3)** $0.08 \times 10 = 0.8$. Multiplying by 10 moves the decimal point one place to the right.
- 6) **Choice D is correct.** **(5.DS.A.2)** Total: $(8 \times 2) + (10 \times 3) + (12 \times 3) + (14 \times 2) = 16 + 30 + 36 + 28 = 110$ goals.
- 7) **Choice B is correct.** **(5.NBT.A.8)** $2,904 \div 44 = 66$ crates. Check: $44 \times 66 = 2,904$.
- 8) **Choice C is correct.** **(5.NBT.A.4)** $68 \times 100 = 6800$ cents. Append two zeros to 68.
- 9) **Choice A is correct.** **(5.NF.B.7)** $\frac{1}{3}$ is the smallest factor, so $7 \times \frac{1}{3}$ is the smallest product.
- 10) **Choice C is correct.** **(5.GM.A.2)** The 7 figures in the outer part of the parallelogram circle are parallelograms but not rectangles.
- 11) **Choice B is correct.** **(5.RA.C.5)** Choose the operation from the story, then keep the unit with the answer. Divide: $156 \div 12 = 13$ boxes. This confirms the answer.
- 12) **Choice C is correct.** **(5.RA.C.5)** Dividing by a power of 10 shifts the value to a smaller place. $4,500 \div 10 = 450$ books per store. This confirms the answer.
- 13) **Choice C is correct.** **(5.NBT.A.4)** Add: $3\frac{5}{12} + 1\frac{7}{12} = 4\frac{12}{12} = 5$.
- 14) **Choice B is correct.** **(5.NF.B.6)** To compare the fractions, change them to equivalent fractions with the same denominator. The least common denominator of 8 and 5 is 40. $\frac{3}{8} = \frac{15}{40}$ and $\frac{2}{5} = \frac{16}{40}$. Since $16 > 15$, $\frac{2}{5} > \frac{3}{8}$, so Rosa has more pizza.
- 15) **Choice A is correct.** **(5.NBT.A.7)** On a 10×10 grid, shading 4 columns (width) and 6 rows (height) covers $4 \times 6 = 24$ squares out of 100, which is 0.24.
- 16) **Choice D is correct.** **(5.NBT.A.4)** Multiplying by 10,000 moves the decimal four places right, so 0.18 becomes 1,800. The student's 18 is too small.
- 17) **Choice C is correct.** **(5.RA.A.1)** After 3 increases, Pattern C is $4 + 2 + 2 + 2 = 10$ and Pattern D is $4 + 5 + 5 + 5 = 19$. The difference is $19 - 10 = 9$.
- 18) **Choice A is correct.** **(5.NF.B.8)** One whole foot has 3 one-third-foot pieces, so $1 \div \frac{1}{3} = 3$ pieces.
- 19) **Choice C is correct.** **(5.NF.B.8)** Third pair: X-value is 5 (position 3 in 1, 3, 5, 7), Y-value is 6 (position 3 in 2, 4, 6, 8).
- 20) **Choices A, B, D are correct.** **(5.GM.B.5)** Multiply the three dimensions for each prism. Choices A, B, and D each equal 120 cubic feet, while C equals 80 cubic feet.
- 21) **Choice A is correct.** **(5.NF.B.6)** Borrow 1: $1\frac{5}{4} - 1\frac{3}{4} = \frac{2}{4} = \frac{1}{2}$ hr.
- 22) **The correct answer is $\frac{13}{24}$.** **(5.NF.B.6)** LCD = 24. $\frac{9}{24} + \frac{4}{24} = \frac{13}{24}$.
- 23) **Choice D is correct.** **(5.NF.B.6)** $0.75 \times 100 = 75$ dollars (move decimal 2 places right).
- 24) **Choice A is correct.** **(5.NBT.A.4)** Write $12.30 - 4.56 = 7.74$. Annex zero to match place values.
- 25) **Choice B is correct.** **(5.NBT.A.6)** $7\frac{1}{12} \approx 7$ and $2\frac{11}{12} \approx 3$. So $7\frac{1}{12} + 2\frac{11}{12} \approx 7 + 3 = 10$.
- 26) **Choice A is correct.** **(5.NF.B.4)** Use total amount divided by the size of one piece. The equation is $9 \div \frac{1}{6} = n$.
- 27) **Choice B is correct.** **(5.GM.B.4)** Total: $50 \times 30 \times 15 = 22,500$ cu. ft. Half: $22,500 \div 2 = 11,250$ cu. ft.
- 28) **Choice A is correct.** **(5.GM.B.4)** Since 1 pint = 2 cups, multiply 4 by 2: $4 \times 2 = 8$ cups.
- 29) **The correct answer is 3.** **(5.NF.B.7)** First simplify $\frac{2}{6}$ to $\frac{1}{3}$. Then $9 \times \frac{1}{3} = \frac{9}{3} = 3$.
- 30) **The correct answer is $<$.** **(5.NF.B.7)** 1.408 has 4 tenths and 0 hundredths. 1.48 has 4 tenths and 8 hundredths. So $1.408 < 1.48$.
- 31) **Choice B is correct.** **(5.NF.A.3)** The hierarchy flows one way: Rectangle \rightarrow Parallelogram. Not all parallelograms are rectangles (e.g., a tilted parallelogram without right angles).



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.

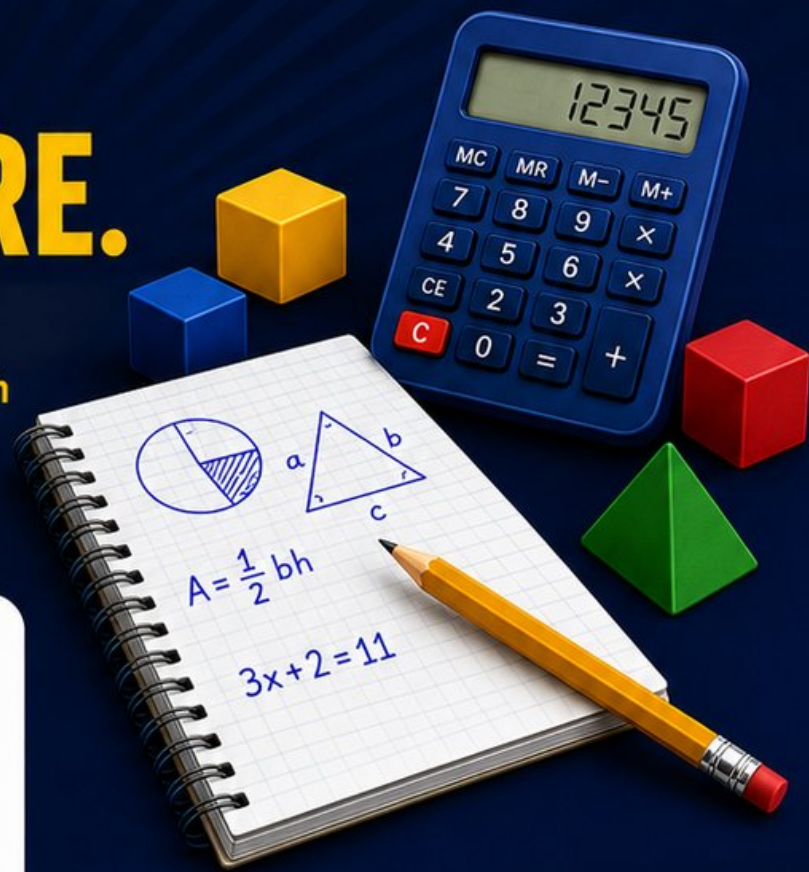
Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

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!



Visit testinar.com/math5

for more Grade 5 math resources and practice materials!



Aligned to Standards



Created by Educators



Trusted by Parents & Teachers