

9

Arizona

AASA

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



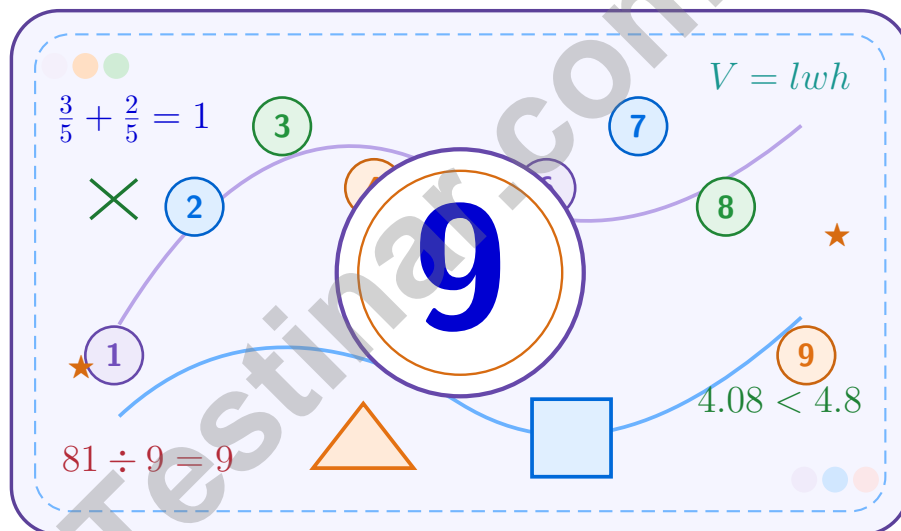
Improve Math Skills



Achieve Success

9 Arizona AASA 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 Arizona AASA. 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	_____	15
★ Practice Test 2	_____	30
★ Practice Test 3	_____	45
★ Practice Test 4	_____	60
★ Practice Test 5	_____	76
★ Practice Test 6	_____	91
★ Practice Test 7	_____	105
★ Practice Test 8	_____	120
★ Practice Test 9	_____	135
Practice Test Answer Keys	_____	150
Practice Test Answers and Explanations	_____	156

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

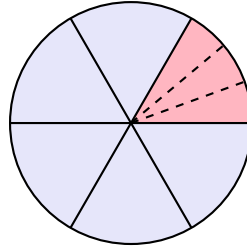
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



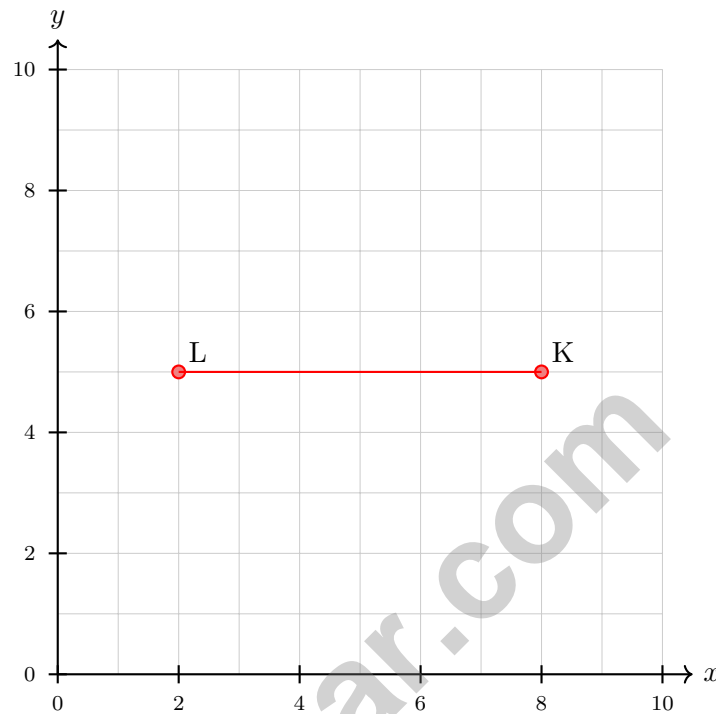
- 1) A circle is divided into 6 equal sectors. One sector is $\frac{1}{6}$ of the circle. This sector is then divided into 3 equal parts. What fraction of the whole circle is each small part?



- A. $\frac{1}{18}$ C. $\frac{3}{6}$
 B. $\frac{1}{9}$ D. $\frac{1}{3}$
- 2) Pattern: 200, 180, 160, ... Which is the 8th term?
- A. 80 C. 40
 B. 50 D. 60
- 3) How many times greater is 4000 than 4?
- A. 10 times C. 1000 times
 B. 100 times D. 10000 times



4) Point K is at (8, 5) and point L is at (2, 5). What is the distance between these two points?



A. 4 units

B. 5 units

C. 8 units

D. 6 units

5) Find: $9.5 + 0.67 + 1.2$.

Record your answer in the space provided.



Scan me

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

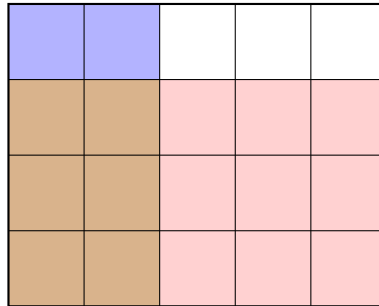
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

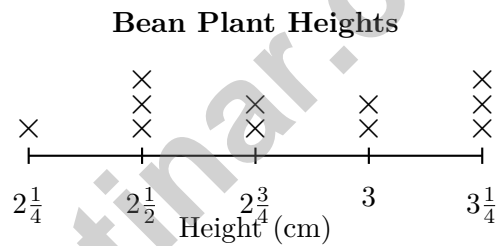
1 day = 24 hours (hr) 1 year = 52 weeks



- 1) A store has $\frac{2}{5}$ of its shelf space dedicated to pasta. Of that space, $\frac{3}{4}$ is stocked with spaghetti. What fraction of the total shelf is spaghetti?



- A. $\frac{6}{20}$ or $\frac{3}{10}$
 C. $\frac{5}{9}$
 B. $\frac{1}{5}$
 D. $\frac{2}{3}$
- 2) The line plot shows bean plant growth (in centimeters) for 11 students' projects:



- Which height is the least common?
- A. $2\frac{1}{4}$ cm
 C. $2\frac{3}{4}$ cm
 B. $2\frac{1}{2}$ cm
 D. 3 cm
- 3) What is 0.072×10^3 ?

- A. 0.72
 C. 72
 B. 7.2
 D. 720



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 does NOT give volume 180 cm^3 ?

A. Base 36 cm^2 , height 5 cm

C. Base 60 cm^2 , height 3 cm

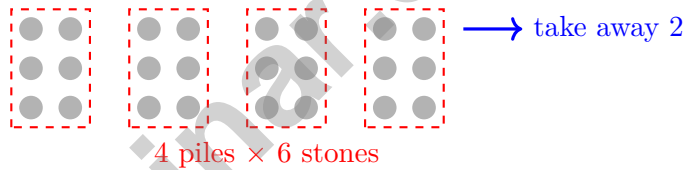
B. Base 45 cm^2 , height 4 cm

D. Base 90 cm^2 , height 3 cm

2) Find: $9 \times \frac{2}{6}$.

Record your answer in the space provided.

3) A diagram shows 4 piles of 6 stones; 2 stones are taken away. Which expression describes the total stones remaining?



A. $4 + 6 - 2$

C. $4 \times 6 - 2$

B. $4 \times (6 - 2)$

D. $(4 + 6) \times 2$

4) What is $\frac{1}{8} \div 5$?



$\frac{1}{8}$ split into 5

A. $\frac{5}{8}$

C. $\frac{1}{13}$

B. $\frac{1}{40}$

D. $\frac{1}{3}$



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

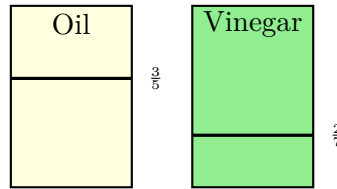
1 hour (hr) = 60 minutes (min) 1 year = 12 months

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



Scan me

1) A recipe needs $\frac{3}{5}$ cup of oil and $\frac{2}{7}$ cup of vinegar. Which ingredient is more?

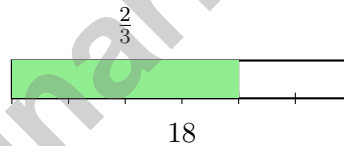


- A. Oil is more
 B. Vinegar is more
 C. They are equal
 D. Cannot determine

2) Find the sum and express as a mixed number: $\frac{5}{6} + \frac{3}{4}$

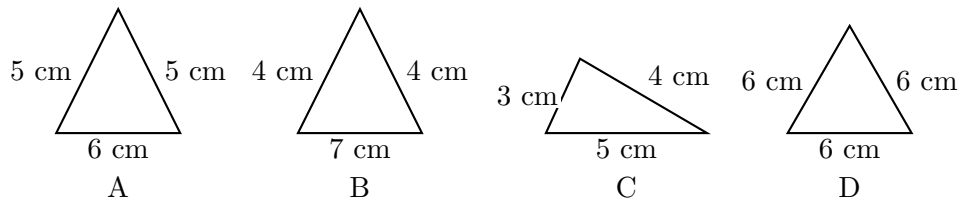
- A. $\frac{8}{10}$
 B. $\frac{19}{10}$
 C. $1\frac{7}{12}$
 D. $\frac{9}{12}$

3) Find $\frac{2}{3}$ of 18.



- A. 6
 B. 9
 C. 12
 D. 18

4) Which triangle has three sides of different lengths?



- A. A
 B. B
 C. C
 D. D



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 Arizona scores.

Testinar.com



Scan me

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (5.NF.B.4) $\frac{1}{6} \div 3 = \frac{1}{6} \times \frac{1}{3} = \frac{1}{18}$.
- 2) **Choice D is correct.** (5.OA.B.3) Subtract 20; 8th term: $200 - 7 \times 20 = 60$.
- 3) **Choice C is correct.** (5.OA.B.3) $4000 \div 4 = 1000$. So 4000 is 1000 times greater than 4.
- 4) **Choice D is correct.** (5.NBT.A.2) Both points have the same y -coordinate (5), so they lie on a horizontal line. The distance is $8 - 2 = 6$ units.
- 5) **The correct answer is 11.37.** (5.NBT.B.7) Write each to two decimals: $9.50 + 0.67 + 1.20 = 11.37$.
- 6) **Choice B is correct.** (5.NBT.B.7) The known length and height make groups of $18 \times 8 = 144$ cubic inches. Since $432 \div 144 = 3$, the width is 3 inches.
- 7) **Choice D is correct.** (5.MD.C.4) Dividing by 100 moves the decimal 2 places left: $15.7 \rightarrow 1.57 \rightarrow 0.157$.
- 8) **Choice C is correct.** (5.NBT.A.2) $2\frac{1}{8} \approx 2$, $3\frac{5}{7} \approx 4$, and $1\frac{9}{11} \approx 2$. So total $\approx 2 + 4 + 2 = 8$.
- 9) **Choice D is correct.** (5.NF.A.2) The base area is $10 \times 6 = 60$ square feet. Since $360 \div 60 = 6$, the locker is 6 ft tall.
- 10) **Choice A is correct.** (5.MD.C.5) Multiply the three dimensions to count all cubes in the prism. $6 \times 2 \times 3 = 36$ unit cubes.
- 11) **The correct answer is 165.** (5.MD.A.1) Convert the hours first: 2 hours is $2 \times 60 = 120$ minutes. Add 45 minutes to get $120 + 45 = 165$ minutes.
- 12) **The correct answer is 3.** (5.MD.A.1) For nonzero terms, $9 \div 3 = 3$, $18 \div 6 = 3$, and $27 \div 9 = 3$.
- 13) **Choice D is correct.** (5.G.A.2) Items at \$5 contribute $2 \times \$5 = \10 . Items at \$10 contribute $3 \times \$10 = \30 . For items at \$10 and below, the total is $\$10 + \$30 = \$40$.
- 14) **Choice D is correct.** (5.NBT.A.3) Both represent 2 ones and 5 tenths. Trailing zeros are equivalent.
- 15) **Choice B is correct.** (5.NBT.A.3) If $0.03 \div 10 = 0.003$, then the missing value is 0.03.
- 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 D is correct.** (5.NF.A.1) Expression Y is two copies of Expression X: $(11 + 4) + (11 + 4)$. Two copies of the same amount means Y is 2 times X.
- 18) **Choice C is correct.** (5.OA.A.2) Since $\frac{7}{8} < 1$, multiplying 5 by it gives a smaller result. $5 \times \frac{7}{8} = \frac{35}{8} = 4.375 < 5$.
- 19) **Choice C is correct.** (5.NF.B.5) The exponent tells us there are three factors of 10, so $10^3 = 1,000$. Then $9 \times 1,000 = 9,000$.
- 20) **Choices A, B are correct.** (5.NBT.A.2) Multiplying by 10 moves 4.56 one place right to 45.6, and dividing by 10 moves it one place left to 0.456. C keeps the same value, and D moves too far left.
- 21) **Choice D is correct.** (5.NF.A.2) Both fractions in A are equivalent to $\frac{1}{2}$: $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$. The other choices include at least one fraction that is not equivalent to $\frac{1}{2}$.
- 22) **Choice B is correct.** (5.MD.A.1) Since 1 gallon = 4 quarts, divide 12 by 4: $12 \div 4 = 3$ gallons. This also matches 24 pints because 3 gallons equals 24 pints.
- 23) **Choice D is correct.** (5.NBT.A.3) 0.8 has one decimal place, which represents tenths. So $0.8 = \frac{8}{10}$.
- 24) **The correct answer is 1.** (5.NBT.A.3) The mixed number $1\frac{2}{5}$ is $\frac{7}{5}$. Then $\frac{7}{5} \times \frac{5}{7} = 1$ because the numerator and denominator factors match.
- 25) **The correct answer is \$4/hr.** (5.NF.B.4) The point means 3 hours and 12 dollars. Divide dollars by hours: $12 \div 3 = 4$, so the rate is 4 dollars per hour.
- 26) **Choice A is correct.** (5.G.A.2) Using the distributive property: $3.5 \times 4 = (3 + 0.5) \times 4 = 3 \times 4 + 0.5 \times 4 = 12 + 2 = 14$.
- 27) **Choice B is correct.** (5.NBT.B.7) Add whole: $1 + 3 = 4$. Add fractions: $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$. Result: $4\frac{3}{5}$.
- 28) **Choice B is correct.** (5.MD.C.5) Use the rectangular-prism volume formula: $4 \times 3 \times 8 = 96$. So the volume is 96 cubic inches.
- 29) **Choice C is correct.** (5.MD.C.5) C is correct: $6 \times 5 \times 4 = 120$ cubic units. A: volume is 60. B: volume uses cubic units. D: doubling one dimension doubles the volume.
- 30) **Choice A is correct.** (5.NBT.B.7) $11.25 - 5.43 = 5.82$. Align decimals and subtract each place.



A Mentor's Quiet Encouragement

To My Thoughtful Student,

◇ I want to take a moment, away from the noise of practice, to tell you something true: you have done excellent work. 9 practice tests is a real commitment. Most students do not finish what they start. You did. ◇

★ **What mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you tackle a problem today versus how you tackled it weeks ago. That growth is your real prize. ★

What I See In You

- **Determination:** DEEP. You don't quit when problems get tough.
- **Curiosity:** BRIGHT. You wonder why and how, not just "what's the answer."
- **Self-Awareness:** REAL. You know what you understand and what you're learning.
- **Kindness:** CONSISTENT. You're patient with yourself.

Mentor's note: on test day, treat yourself like you'd treat a friend. Be patient. Be encouraging. Be kind. The same skills that helped you finish 9 tests will carry you through the real one.

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 Mentor (Quietly Cheering)

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