

9

Texas STAAR

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



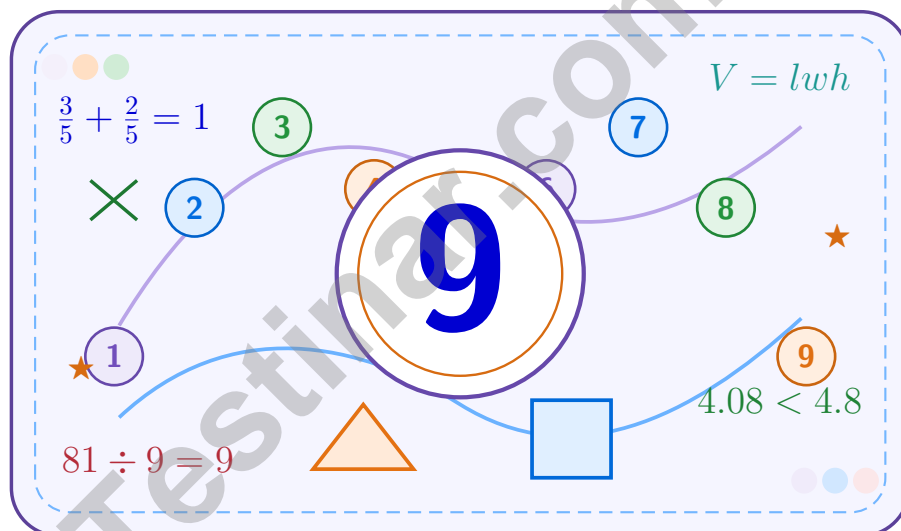
Improve Math Skills



Achieve Success

9 Texas STAAR 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 Texas STAAR. 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	_____	16
★ Practice Test 2	_____	30
★ Practice Test 3	_____	45
★ Practice Test 4	_____	61
★ Practice Test 5	_____	77
★ Practice Test 6	_____	92
★ Practice Test 7	_____	107
★ 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)

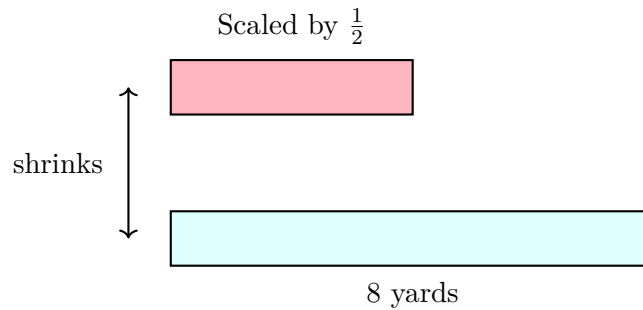
TIME

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 fabric length of 8 yards is scaled by $\frac{1}{2}$. What is the new length?

- A. 2 yards C. 8 yards
 B. 4 yards D. 12 yards

2) A school orders 288 pencils to share equally among 12 classrooms. How many pencils does each classroom get?

- A. 24 C. 20
 B. 18 D. 22

3) Observation: $5 \times 20 = 100$; $5 \times 200 = 1,000$; $5 \times 2,000 = 10,000$. Based on this pattern, how many zeros does $5 \times 20,000$ have?

- A. 5 C. 3
 B. 4 D. 6

4) Compare 0.46 and 0.42:

$$0.46 \square 0.42$$

- A. < C. =
 B. > D. Cannot compare



5) What is $87.6 \div 100$?

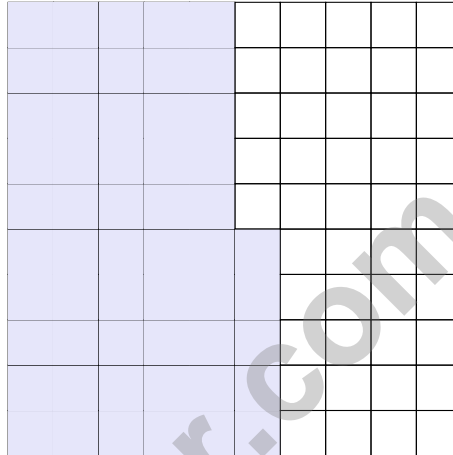
A. 8.76

C. 876

B. 0.087

D. 0.876

6) Decimal-grid visual: 55 shaded squares (out of 100). Which decimal is shown?



A. 0.55

C. 5.5

B. 0.65

D. 55

7) A square and a rhombus both have 4 equal sides. What property must a square have that a rhombus does not always have?

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	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

WEIGHT AND MASS

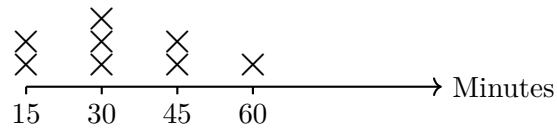
Customary	Metric
1 pound (lb) = 16 ounces (oz)	1 kilogram (kg) = 1,000 grams (g)
	1 gram (g) = 1,000 milligrams (mg)

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) The line plot shows times (in minutes) students spent on homework:



How many more students spent 30 minutes than 60 minutes on homework?

- A. 2 more students
- B. 3 more students
- C. 4 more students
- D. 5 more students
- 2) Garden plot measurement: a small plot is 0.045 hectares. If converted using 0.045×10^2 , what is the result?
- A. 0.45
- B. 4.5
- C. 45
- D. 450
- 3) A triangle has side lengths 6 cm, 6 cm, and 6 cm. Each angle measures 60° . Which classification describes the triangle by both side lengths and angle measures?
- A. Equilateral and obtuse
- B. Isosceles and right
- C. Scalene and acute
- D. Equilateral and acute
- 4) Find the sum: $3\frac{2}{5} + 2\frac{1}{2}$.

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



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

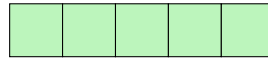
1 day = 24 hours (hr) 1 year = 52 weeks



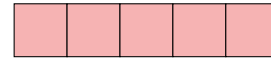
- 1) The bar model shows 3 groups. Each group has $(2 + 3)$ units. Which expression matches the model?



Group 1 (5 units)

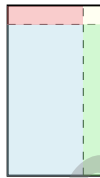


Group 2 (5 units)



Group 3 (5 units)

- A. $(2 + 3) + 3$
 C. $3 \times 2 + 3$
 B. $3 \times (2 + 3)$
 D. $(3 + 3) \times 2$
- 2) An artist paints a canvas that is $2\frac{1}{2}$ feet by $4\frac{1}{2}$ feet. What is the area of the canvas?



- A. 13 square feet
 C. $11\frac{1}{4}$ square feet
 B. $12\frac{1}{4}$ square feet
 D. 10 square feet
- 3) A triangle has angles measuring 50 degrees, 60 degrees, and 70 degrees. What type is it based on its angles?
- A. Right
 C. Obtuse
 B. Equilateral
 D. Acute
- 4) A baker needs $\frac{3}{4}$ cup of flour and $\frac{1}{5}$ cup of sugar. Estimate the total.
- A. Less than $\frac{1}{2}$ cup
 C. About $1\frac{1}{2}$ cups
 B. About 1 cup
 D. More than 2 cups



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 Texas scores.

Testinar.com



Scan me

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** **5.3(I)** $8 \times \frac{1}{2} = 4$ yards. The bar diagram shows the scaled length is half the original, as $\frac{1}{2} < 1$.
- Choice A is correct.** **5.3(G)** $288 \div 12 = 24$ pencils per classroom. Check: $12 \times 24 = 288$.
- Choice A is correct.** **5.3(G)** The pattern gains one zero each time the second factor gains one zero. After 10,000, the next product is 100,000, which has 5 zeros.
- Choice B is correct.** **5.6(B)** Both decimals have 4 tenths. Compare the hundredths: 6 hundredths is greater than 2 hundredths, so $0.46 > 0.42$.
- Choice D is correct.** **5.2(B)** Dividing by 100 moves the decimal 2 places left: $87.6 \rightarrow 8.76 \rightarrow 0.876$.
- Choice A is correct.** **5.6(B)** 55 out of 100 squares shaded represents $\frac{55}{100} = 0.55$.
- The correct answer is right angles.** **5.5** Both squares and rhombuses have 4 equal sides. A square must also have 4 right angles, but a rhombus does not always have right angles.
- Choice C is correct.** **5.5** Choose the operation from the story, then keep the unit with the answer. Subtract: $250 - 165.5 = 84.5$ liters needed. This confirms the answer.
- Choice D is correct.** **5.3(H)** LCD = 12. $\frac{5}{6} = \frac{10}{12}$; $\frac{1}{4} = \frac{3}{12}$. $\frac{10}{12} - \frac{3}{12} = \frac{7}{12}$.
- Choice D is correct.** **5.3(H)** $\frac{2}{5} < 1$, so multiplying makes the result smaller.
- Choice A is correct.** **5.3(I)** Area = $\frac{2}{5} \times \frac{4}{5} = \frac{8}{25}$ square meters.
- Choice A is correct.** **5.3(A)** $8.75 - 2.36 = 6.39$ inches. Requires borrowing from tenths.
- Choice C is correct.** **5.3(A)** The bottom layer has 24 cubes. Since the prism is 2 cubes tall, there are 2 layers, so $24 \times 2 = 48$.
- The correct answer is $\frac{7}{12}$.** **5.3(I)** Multiply across to get $\frac{14}{24}$. Both numbers are divisible by 2, so $\frac{14}{24} = \frac{7}{12}$.
- Choice B is correct.** **5.3(I)** $\frac{1}{8} \div 2 = \frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$.
- Choice B is correct.** **5.8(C)** The first coordinate, 9, matches the x-axis label: weeks. The second coordinate, 45, matches the y-axis label: dollars saved. So the point means dollars saved is 45 when weeks is 9.
- Choice A is correct.** **5.3(A)** Multiply the fractions: $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$. Therefore, Maria needs $\frac{1}{2}$ cup of flour.
- Choice C is correct.** **5.4(F)** The parentheses give $20 + 4 = 24$. Then $24 \div 6 = 4$, and $4 \times 3 = 12$.
- Choices A, C are correct.** **5.4(F)** A is true because $20 + 1$ creates one extra group of 5. C is true because $100 - 1$ creates one fewer group of 9 than 100 groups. B changes the grouping, and D is equal rather than greater.
- Choice A is correct.** **5.3(I)** $\frac{1}{3} \times 3\frac{1}{3} = \frac{1}{3} \times \frac{10}{3} = \frac{10}{9} = 1\frac{1}{9}$ cups.
- Choice D is correct.** **5.4(D)** Work one prism at a time: $8 \times 3 \times 5 = 120$, $6 \times 2 \times 4 = 48$, and $5 \times 2 \times 1 = 10$. Add the non-overlapping volumes: $120 + 48 + 10 = 178$ cubic centimeters.
- Choice A is correct.** **5.8(B)** The x -coordinate of 1 means 1 unit to the right; the y -coordinate of 4 means 4 units up.
- Choice D is correct.** **5.4(F)** Start with the parentheses: $8 + 2 = 10$. Then $10 \div 5 = 2$, and subtracting gives $25 - 2 = 23$.
- The correct answer is $3 \times (9 + 12)$.** **5.4(F)** The words "the sum of 9 and 12" mean $9 + 12$ should be grouped before multiplying by 3.
- Choice B is correct.** **5.4(F)** Subtract: $8.51 - 3.24 = 5.27$. Check: $5.27 + 3.24 = 8.51$.
- Choice D is correct.** **5.3(A)** The base area is $18 \times 7 = 126$ square centimeters. Since $630 \div 126 = 5$, the height is 5 cm.
- Choice A is correct.** **5.6(B)** Use total amount divided by the size of one piece. The equation is $6 \div \frac{1}{2} = n$.
- Choice D is correct.** **5.3(B)** Multiply: $18 \times 45 = 18 \times (40 + 5) = (18 \times 40) + (18 \times 5) = 720 + 90 = 810$ books.
- The correct answer is $23\frac{1}{2}$ in.** **5.3(B)** Add the lengths represented by the line plot: $2 \times 3\frac{1}{2} = 7$, $3 \times 4 = 12$, and $1 \times 4\frac{1}{2} = 4\frac{1}{2}$. The total is $7 + 12 + 4\frac{1}{2} = 23\frac{1}{2}$ inches.



Strong Climber, Listen Up!

◇ You did it. You climbed all 9 practice tests like a steady mountain climber—one foothold, one breath, one step at a time. The view from the top is wonderful because you earned it. Test day is the next peak, and you are stronger than the climber you were when you started. ◇

★ **Here is what mountain guides teach:** pacing matters more than speed. Take steady steps. Check your footing. Keep your eyes on the path. The same wisdom helps on a math test: read carefully, work calmly, and check your work before you move on. ★

Climber's Field Notes

- **Endurance:** STRONG! You can finish a long climb without losing focus.
- **Footwork:** STEADY! Your steps (your steps in problem-solving) are reliable.
- **Map Reading:** CLEAR! You read questions carefully before you start.
- **Summit Mindset:** READY! You know how to push through the last stretch.

Field tip: on test day, take small breaths between problems. Each problem is a foothold. Take it. Move on. Take the next. That is how mountains get climbed—and how tests get conquered.

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 Guide (Onward and Upward)

PRACTICE MORE. ACHIEVE MORE.

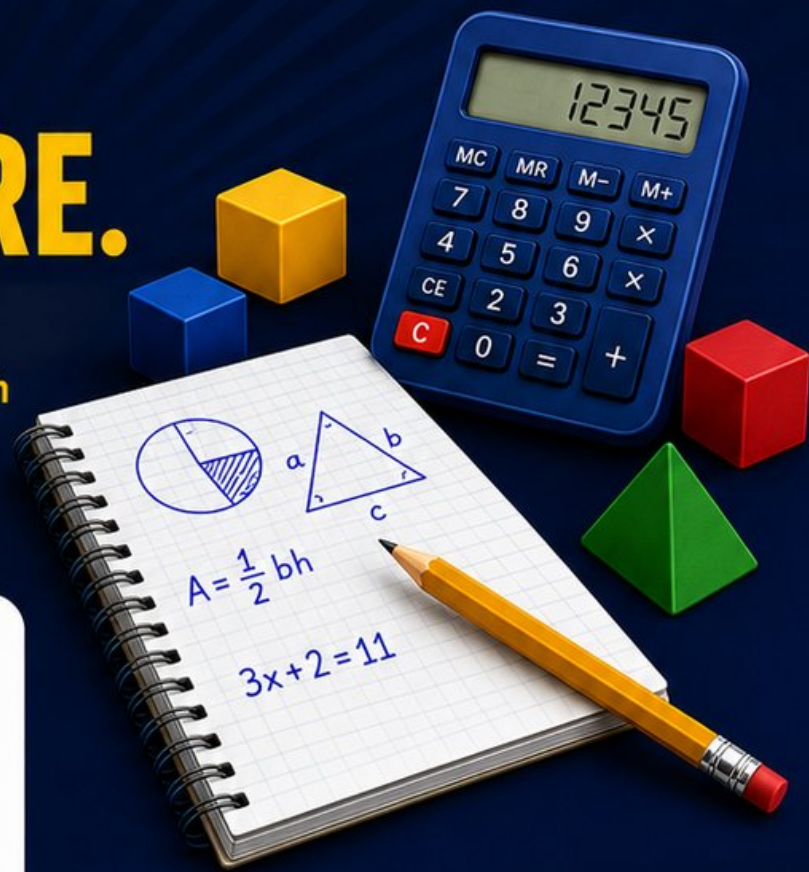
Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

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