

9

Oregon

OSAS

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

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

$$y = 2x + 1$$



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



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

$$7.2 \div 0.8 = 9$$



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



Build Confidence



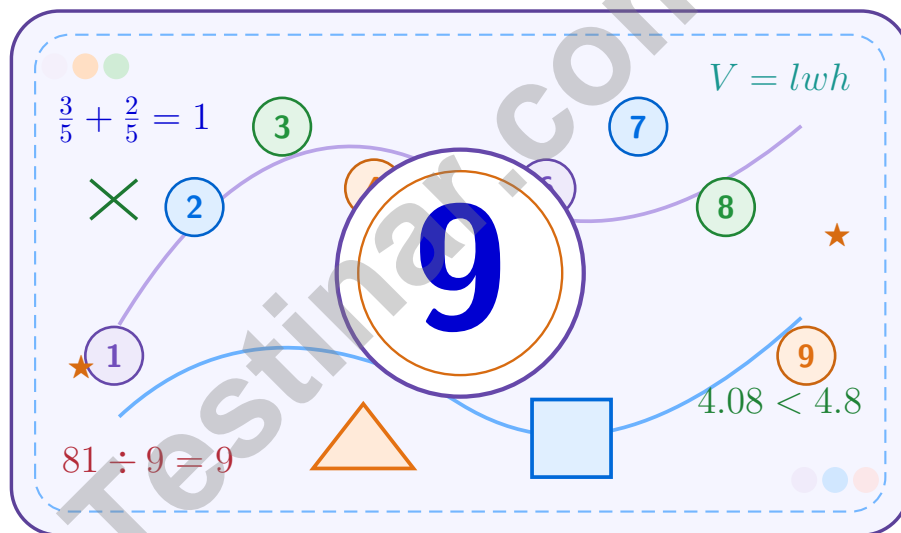
Improve Math Skills



Achieve Success

9 Oregon OSAS 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 Oregon OSAS. 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	_____	28
★ Practice Test 3	_____	43
★ Practice Test 4	_____	58
★ Practice Test 5	_____	73
★ Practice Test 6	_____	88
★ Practice Test 7	_____	102
★ Practice Test 8	_____	116
★ Practice Test 9	_____	131
Practice Test Answer Keys	_____	146
Practice Test Answers and Explanations	_____	152

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



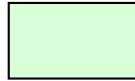
1) A small greenhouse model measures 10 meters long, 3 meters wide, and 5 meters tall. What is its volume?

- A. 30 cubic meters C. 15 cubic meters
 B. 50 cubic meters D. 150 cubic meters

2) Look at the two quadrilaterals. Which property do they NOT share?



Square



Rectangle

- A. Four right angles C. All sides are congruent
 B. Two pairs of parallel sides D. Opposite sides are parallel
- 3) Is 0.7 a reasonable quotient for $3.5 \div 5$? Which explanation is correct?
- A. No, the quotient should be around 7 C. No, the quotient should be larger
 B. Yes, because $0.7 \times 5 = 3.5$ D. Yes, because 3.5 is divisible by 5
- 4) What is 73×5 ?
- A. 350 C. 365
 B. 360 D. 375

5) Find the difference: $\frac{3}{4} - \frac{1}{6}$.

Record your answer in the space provided.



6) Which is “the quotient of 36 and 4, increased by 9”?

A. $36 + 4 \div 9$

B. $36 \div (4 + 9)$

C. $9 + 36 \div (4 + 1)$

D. $(36 \div 4) + 9$

7) For the rule "add 5 to the input," which ordered pair belongs in the pattern?

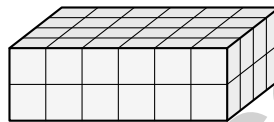
A. (2, 4)

B. (3, 3)

C. (4, 6)

D. (5, 10)

8) A rectangular prism has 24 unit cubes on its bottom layer. If the prism is 2 cubes tall, what is its total volume?



A. 24 unit cubes

B. 26 unit cubes

C. 48 unit cubes

D. 12 unit cubes

9) Compare $8 \times 1\frac{1}{2}$ to 8. Which statement is correct?

A. $8 \times 1\frac{1}{2} < 8$

B. $8 \times 1\frac{1}{2} = 8$

C. $8 \times 1\frac{1}{2} > 8$

D. They are not comparable

10) Find: 0.009×10^3 .

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



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) What is $\frac{2}{3} \times \frac{1}{4}$ in simplest form?

A. $\frac{2}{7}$

B. $\frac{3}{12}$

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

D. $\frac{3}{7}$

2) Pattern: odd numbers 1, 3, 5, 7, ... What is the 20th odd number?

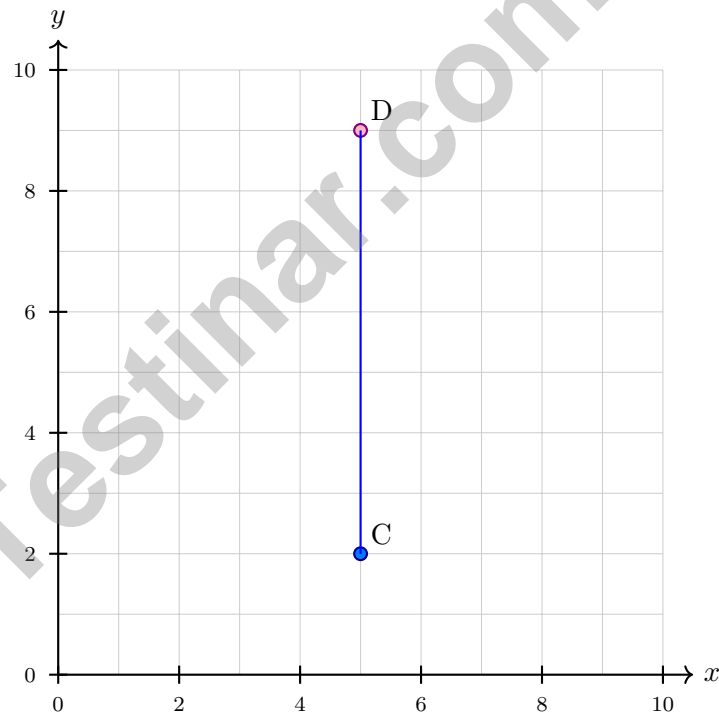
A. 37

B. 39

C. 40

D. 41

3) Points C and D both lie on a vertical line. C is at (5, 2) and D is at (5, 9). How many units apart are these points?



A. 5 units

B. 7 units

C. 9 units

D. 14 units



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 Oregon scores.

Testinar.com



Scan me

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (5.GM.D.7) Use the rectangular-prism volume formula: $10 \times 3 \times 5 = 150$. So the volume is 150 cubic meters.
- 2) **Choice C is correct.** (5.GM.D.7) Both shapes have 4 right angles, 2 pairs of parallel sides, and opposite sides parallel. But a rectangle does NOT require all sides to be congruent; only a square does.
- 3) **Choice B is correct.** (5.NBT.B.5) Check by multiplying: $0.7 \times 5 = 3.5$. The quotient is reasonable because it checks with the inverse operation.
- 4) **Choice C is correct.** (5.NBT.B.5) Multiply: $73 \times 5 = (70 \times 5) + (3 \times 5) = 350 + 15 = 365$.
- 5) **The correct answer is $\frac{7}{12}$.** (5.NBT.B.5) LCD = 12. $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$.
- 6) **Choice D is correct.** (5.NF.A.1) A quotient is a division result, so start with $36 \div 4$. The phrase “increased by 9” means add 9 to that quotient.
- 7) **Choice D is correct.** (5.OA.A.2) The output should be 5 more than the input. For (5, 10), $10 = 5 + 5$, so this ordered pair belongs in the pattern.
- 8) **Choice C is correct.** (5.GM.A.2) The bottom layer has 24 cubes. Since the prism is 2 cubes tall, there are 2 layers, so $24 \times 2 = 48$.
- 9) **Choice C is correct.** (5.GM.D.6) $1\frac{1}{2} = \frac{3}{2} > 1$, so the product is greater than 8.
- 10) **The correct answer is 9.** (5.NF.B.5) Move the decimal point three places right: $0.009 \rightarrow 9$.
- 11) **Choice D is correct.** (5.NBT.A.2) LCM(5,10) = 10. $\frac{2}{5} = \frac{4}{10}$. $\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$ yard.
- 12) **Choice A is correct.** (5.NF.A.1) “Six and forty-three thousandths” means 6 ones and 43 thousandths. In decimal: $6 + \frac{43}{1000} = 6.043$.
- 13) **Choice C is correct.** (5.NBT.A.1) $\frac{5}{6} \approx 1$ and $\frac{7}{9} \approx 1$. The exact sum is greater than $1\frac{1}{2}$ and less than 2, so choice C is best.
- 14) **Choice D is correct.** (5.NF.A.1) The unit fraction is the amount being shared, so divide $\frac{1}{10}$ by 5. The equation is $\frac{1}{10} \div 5 = n$.
- 15) **Choice B is correct.** (5.NF.B.7) $6 \times 1000 = 6000$. Append three zeros to 6.
- 16) **Choice D is correct.** (5.NBT.A.2) The thousandths place is the third position to the right of the decimal point. In 11.247, the digit 7 is in the thousandths place.
- 17) **The correct answer is 29.40.** (5.GM.D.7) Choose the operation from the story, then keep the unit with the answer. $2.45 \times 12 = 29.40$. This confirms the answer.
- 18) **Choice B is correct.** (5.GM.D.7) Total paved: $12.5 + 14.75 = 27.25$ km. Remaining: $50 - 27.25 = 22.75$ km.
- 19) **Choice B is correct.** (5.GM.C.4) LCD of 8 and 12 is 24. $\frac{1}{8} = \frac{3}{24}$ and $\frac{3}{12} = \frac{6}{24}$.
- 20) **Choice D is correct.** (5.NF.A.2) Find each part first: Prism A is $5 \times 4 \times 4 = 80$ cubic meters, and Prism B is $6 \times 2 \times 4 = 48$ cubic meters. Because the parts do not overlap, add them: $80 + 48 = 128$ cubic meters.
- 21) **Choice A is correct.** (5.NF.B.7) $\frac{1}{4} \div 5 = \frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$.
- 22) **Choices A, B are correct.** (5.NF.B.7) Multiply the base area by the height: $15 \cdot 4 = 60$, so the volume is 60 cubic centimeters. C adds instead of multiplying, and D is false because the prism’s volume stays the same no matter which face you call the base.
- 23) **Choice A is correct.** (5.NBT.A.2) Use the fact $4 \times 6 = 24$. The factors 4,000 and 60 bring four zeros total, so the product is 240,000.
- 24) **The correct answer is 50.** (5.NBT.A.2) Innermost first: $8 + 2 = 10$. Then $10 \times 3 = 30$. Then $30 - 5 = 25$. Finally $25 \times 2 = 50$.
- 25) **Choice D is correct.** (5.OA.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.
- 26) **Choice A is correct.** (5.OA.A.2) Divide by 2 each step: $12.5 \div 2 = 6.25$.
- 27) **Choice C is correct.** (5.OA.B.3) $\frac{2}{3} \times \frac{9}{10} = \frac{18}{30}$, which simplifies to $\frac{3}{5}$ meter.
- 28) **Choice B is correct.** (5.NF.B.6) Convert to tenths: $2\frac{5}{10} + 3\frac{3}{10} = 5\frac{8}{10}$.



Workshop Notes for an Inventor

Dear Math Inventor,

◇ 9 practice tests. 9 chances to invent new ways of thinking. You tried strategies, broke them, fixed them, and built them stronger. That's what inventors do. That's what you do. ◇

★ **What inventors know:** the first idea isn't always the best one. Sometimes you have to try, fail, learn, and try again. You've practiced that exact loop on every test. That practice is why your problem-solving brain is so flexible now. ★

Inventor's Workshop Inventory

- **Sketch Pad:** FULL of ideas! You can imagine multiple ways to solve.
- **Toolbox:** STOCKED! You have many strategies to draw on.
- **Workbench:** ORGANIZED! Your work is clear and step-by-step.
- **Invention Mindset:** STRONG! You're not afraid to try something new.

Inventor's tip: on test day, if your first idea doesn't work, switch tools. Try a different strategy. Inventors don't get stuck on one tool—they pick the right one for the job. Same on a math test.

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 Inventor (Build Big Things)

PRACTICE MORE. ACHIEVE MORE.

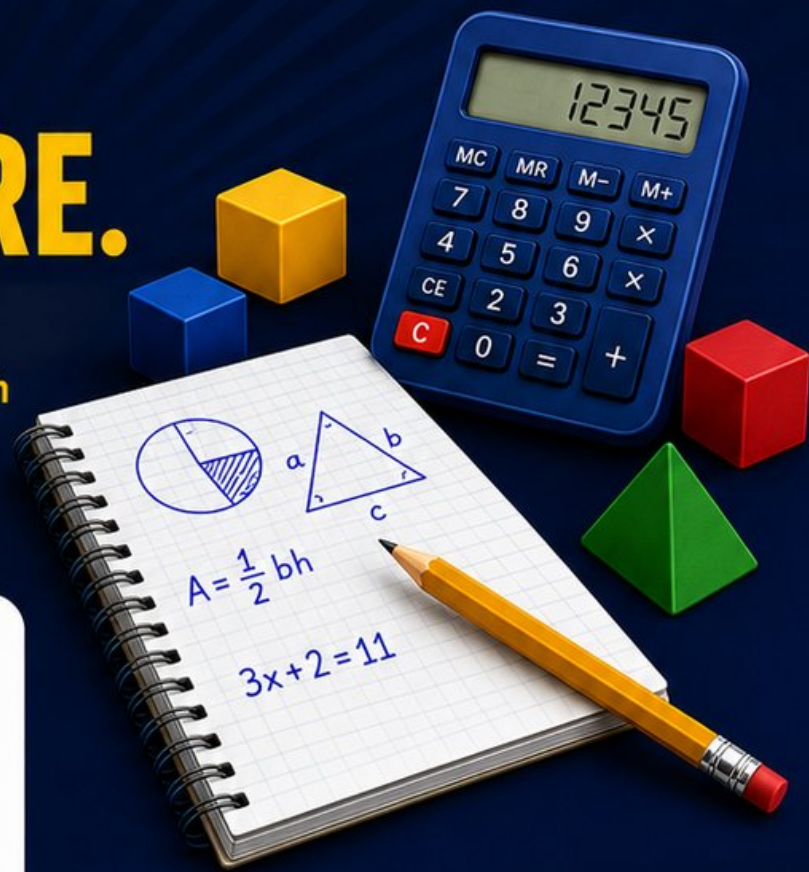
Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

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