



# 6

# Louisiana LEAP



# GRADE 5 MATH

## PRACTICE TESTS

Complete Standards-Based Practice  
— for Grade 5 Math Success —



$$5^2 = 25$$



**6 FULL-LENGTH PRACTICE TESTS**  
Realistic style questions



**STANDARDS-BASED PRACTICE**  
Covers all Grade 5 Math standards

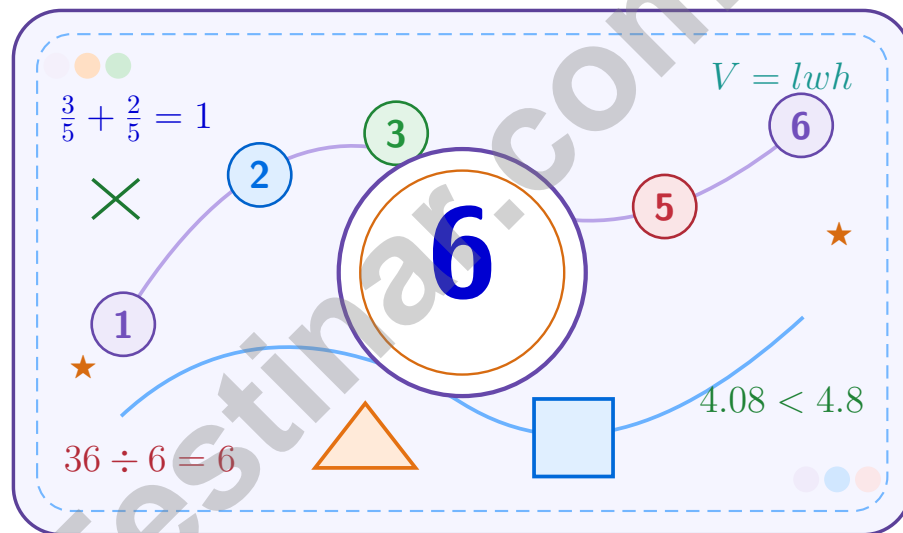


**BUILD CONFIDENCE. IMPROVE SCORES.**  
Target weak areas and achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

# 6 Louisiana LEAP Grade 5 Math Practice Tests

*A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round*



Six full tests, a focused skill booster, 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](http://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 six 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 six tests into steady growth

## 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.

## A Six-Week Climb Map

Week	Mission Focus
<b>Week 1</b>	Take Test 1 and review any place-value or operation slips.
<b>Week 2</b>	Take Test 2 and focus on showing neat, easy-to-read work.
<b>Week 3</b>	Take Test 3 and give extra time to fractions or decimals if needed.
<b>Week 4</b>	Take Test 4 and slow down on word problems and units.
<b>Week 5</b>	Take Test 5 and compare your score and habits with earlier rounds.
<b>Week 6</b>	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



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 Louisiana LEAP. 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	_____	60
★ Practice Test 5	_____	74
★ Practice Test 6	_____	88
<b>Practice Test Answer Keys</b>	_____	<b>104</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>108</b>

Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



## 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 class has \$6 for bus tokens. Each token costs  $\frac{1}{5}$  of a dollar. How many tokens can the class buy?

A. 20 tokens

C. 40 tokens

B. 30 tokens

D. 60 tokens

2) A swimming pool is 25 m long, 10 m wide, 2 m deep. Find its volume.

*Record your answer in the space provided.*

3) Find:  $362 \times 24$ .

*Record your answer in the space provided.*

4) Subtract:  $6 - 1\frac{4}{9}$ .

A.  $4\frac{5}{9}$

C.  $5\frac{4}{9}$

B.  $4\frac{4}{9}$

D.  $5\frac{5}{9}$

5) What is  $4.5 \div 100$ ?

A. 0.45

C. 45

B. 450

D. 0.045



## 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



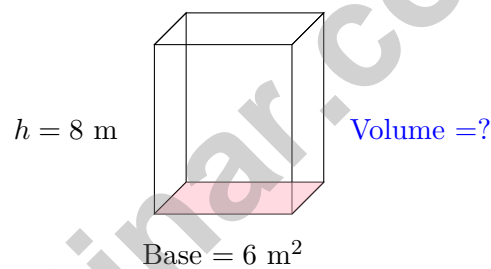
1) A runner estimates her time as 18.75 seconds. What is this rounded to the nearest whole second?

- A. 18 sec  
 B. 18.7 sec

- C. 18.8 sec  
 D. 19 sec

2) Find:  $2\frac{2}{3} \times 1\frac{1}{4}$ .

*Record your answer in the space provided.*



3)

Calculate the volume.

- A. 14 m<sup>3</sup>  
 B. 48 m<sup>2</sup>

- C. 2 m<sup>3</sup>  
 D. 48 m<sup>3</sup>

4) Which statement is false without calculating?

- A.  $15 \times 8 = 8 \times 15$   
 B.  $(4 + 7) + 9 = 4 + (7 + 9)$   
 C.  $24 - 10 = 24 + 10$   
 D.  $6 \times (3 + 5) = 6 \times 3 + 6 \times 5$



## 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

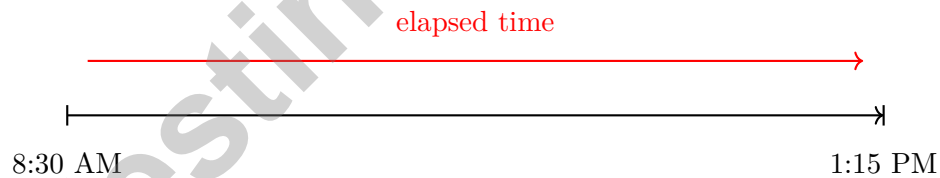
1 minute (min) = 60 seconds (sec)    1 week = 7 days

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

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



- 1) Two patterns are A: 2, 4, 6, 8 and B: 6, 12, 18, 24. Each B value is how many times the matching A value?
- A. 1                                       C. 3  
 B. 2                                       D. 4
- 2) Which expression represents “5 more than 7 times 9”?
- A.  $5 \times (7 + 9)$                                        C.  $(5 + 7) \times 9$   
 B.  $5 \times 7 + 9$                                        D.  $7 \times 9 + 5$
- 3) How many times greater is the digit 6 in the tenths place compared to the digit 6 in the hundredths place?
- A. 2 times                                       C. 10 times  
 B. 5 times                                       D. 100 times
- 4) A transport company tracks deliveries with arrival times: First delivery: 8:30 AM Second delivery: 10:45 AM Third delivery: 1:15 PM  
How much time passed from the first to the last delivery?



- A. 3 hours 45 minutes                                       C. 4 hours 45 minutes  
 B. 4 hours 15 minutes                                       D. 5 hours 15 minutes



## 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

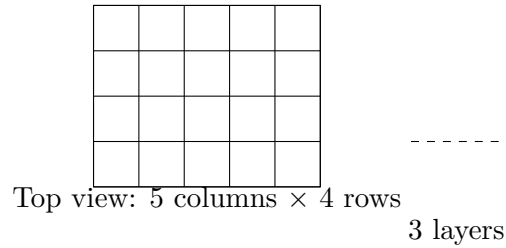
1 minute (min) = 60 seconds (sec)    1 week = 7 days

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

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



- 1) A rectangular prism is built from unit cubes arranged in 3 layers. Each layer has 4 rows and 5 columns of cubes. How many unit cubes are in the entire prism?



- A. 12                                       C. 60  
 B. 20                                       D. 80
- 2) Pattern A has dots 1, 4, 7, 10, ... Pattern B has dots 2, 8, 14, 20, ... Which statement describes the relationship between matching figures?
- A. Pattern B has 1 more dot than Pattern A.       C. Pattern B has 3 fewer dots than Pattern A.  
 B. Pattern B has twice as many dots as Pattern A.       D. Pattern B has the same number of dots as Pattern A.
- 3) A garden path is 150 meters long. What is this distance in kilometers?
- A. 0.15 km                                       C. 15 km  
 B. 1.5 km                                       D. 150 km



## 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 scores.**

Testinar.com



## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (5.NF.B.7c) Each dollar buys 5 one-fifth-dollar tokens.  $6 \div \frac{1}{5} = 6 \times 5 = 30$  tokens.
- 2) **The correct answer is 500 m<sup>3</sup>.** (5.MD.C.5a)  $25 \times 10 \times 2 = 500$  m<sup>3</sup>.
- 3) **The correct answer is 8688.** (5.NBT.B.5)  $362 \times 4 = 1,448$  and  $362 \times 20 = 7,240$ . Sum:  $1,448 + 7,240 = 8,688$ .
- 4) **Choice A is correct.** (5.NF.A.1)  $6 = 5\frac{9}{9}$ . Then  $5\frac{9}{9} - 1\frac{4}{9} = 4\frac{5}{9}$ .
- 5) **Choice D is correct.** (5.NBT.A.2) Dividing by 100 moves the decimal 2 places left:  $4.5 \rightarrow 0.45 \rightarrow 0.045$ .
- 6) **Choice C is correct.** (5.NBT.A.4) Compare distances from 0.5: 0.45 is 0.05 away, 0.489 is 0.011 away, 0.501 is 0.001 away, and 0.55 is 0.05 away. The closest number is 0.501.
- 7) **Choice C is correct.** (5.NF.B.7c) The student found  $4 \times \frac{1}{2} = 2$ . But  $4 \div \frac{1}{2}$  asks how many halves are in 4 wholes. There are 2 halves in each whole, so 4 wholes contain  $4 \times 2 = 8$  halves.
- 8) **Choice D is correct.** (5.MD.C.5) Divide the volume by the base area:  $450 \div 50 = 9$ , so the height is 9 cm.
- 9) **Choice D is correct.** (5.G.B.4) A scalene triangle has no equal side lengths. The other statements do not correctly describe those triangle types.
- 10) **Choice A is correct.** (5.G.A.2) The x-coordinate gives the number of items produced, and the y-coordinate gives the cost. The point (50, 100) represents 50 items produced at a cost of \$100.
- 11) **Choice B is correct.** (5.NBT.A.2) Dividing by 10 makes the number one-tenth as large, so the decimal point moves one place left:  $56 \rightarrow 5.6$ .
- 12) **Choice D is correct.** (5.NBT.B.7) Line up decimal points and subtract place by place.  $15.50 - 7.25 = 8.25$  meters. This confirms the answer.
- 13) **Choice A is correct.** (5.OA.B.3) The pattern grows by 5 each time. Counting terms gives 5, 10, 15, 20, 25, 30, 35, 40, so the 8th term is 40.
- 14) **The correct answer is 42000000.** (5.NBT.A.2) Multiplying by a power of 10 shifts the value to a larger place. Attach six zeros to 42: 42,000,000. This confirms the answer.
- 15) **Choice B is correct.** (5.MD.C.5) The base layer has  $8 \times 4 = 32$  square units. Divide the volume by the base area:  $128 \div 32 = 4$ , so the height is 4 inches.
- 16) **Choice A is correct.** (5.G.A.1) The y-coordinate tells how many units up from the origin. For (3, 8), move 8 units up.
- 17) **Choice D is correct.** (5.NF.B.5c)  $50 \times \frac{4}{5} = 40$  pounds. Since  $\frac{4}{5} < 1$ , the amount used is less than 50 pounds.
- 18) **Choice B is correct.** (5.MD.A.1) 1 liter = 1,000 milliliters. Multiply:  $2.8 \times 1000 = 2800$  mL.
- 19) **Choice D is correct.** (5.NF.B.5c)  $\frac{4}{10} = \frac{2}{5}$ . Then  $\frac{2}{5} \times \frac{5}{8} = \frac{10}{40} = \frac{1}{4}$ .
- 20) **Choices A, B are correct.** (5.MD.C.4) Volume is found by multiplying the dimensions, so  $3 \times 2 \times 4 = 24$ . Choices C and D add or misread the dimensions instead.
- 21) **Choice B is correct.** (5.NBT.A.3b) Compare tenths first, then hundredths when needed:  $0.72 < 0.80 < 0.86 < 1.0$ .
- 22) **Choice D is correct.** (5.MD.C.3b) A cube with side length 4 has 4 cubes along each edge. Multiply the three dimensions:  $4 \times 4 \times 4 = 64$  cubic units.
- 23) **The correct answer is 2 pairs.** (5.G.B.4) A parallelogram has opposite sides that are parallel. That makes 2 pairs of parallel sides.
- 24) **Choice A is correct.** (5.NBT.A.2)  $10^1 = 10$ , so  $4,200 \div 10 = 420$ .
- 25) **Choice C is correct.** (5.NF.A.2a) The denominator 5 is multiplied by 5 to make 25. Multiply the numerator by 5 also:  $\frac{4}{5} = \frac{20}{25}$ .
- 26) **Choice D is correct.** (5.NBT.B.6) Compatible numbers close to 3,149 and 59 are 3,000 and 60. So  $3,000 \div 60 = 50$  is a good estimate. Actual:  $3,149 \div 59 = 53$  R22.
- 27) **Choice A is correct.** (5.NBT.A.3a) "Seven and twenty-four hundredths" means 7 whole units and 24 hundredths: 7.24.
- 28) **Choice C is correct.** (5.NF.B.7c)  $\frac{1}{8} \div 4 = \frac{1}{8} \times \frac{1}{4} = \frac{1}{32}$ .
- 29) **Choice D is correct.** (5.NBT.B.7) Add:  $5.04 + 2.93 = 7.97$  (hundredths:  $4 + 3 = 7$ ; tenths:  $0 + 9 = 9$ ; ones:  $5 + 2 = 7$ ).



## Hello, Mathematical Explorer!

★ What an extraordinary expedition! You've charted your way through six comprehensive practice tests, discovering new mathematical territories and mastering challenging concepts along the way! Like the great explorers who mapped unknown lands, you've navigated through complex problems with determination and courage. Each test was a new frontier, and you conquered them all! ★

◇ **Here's what successful explorers understand:** the journey teaches you more than the destination. Through rough terrain and smooth paths, you've learned how to adapt your approach, use your tools effectively, and never give up when the path gets steep. These six tests have equipped you with navigation skills that will guide you successfully through test day and any mathematical challenge ahead!

◇

### Explorer's Achievement Map

- **Territory Covered:** You've explored every major mathematical concept thoroughly!
- **Navigation Skills:** You can find your way through any problem with multiple solution paths!
- **Equipment Mastered:** You know exactly which strategies to use in different situations!
- **Expedition Ready:** You're fully prepared for the ultimate test day adventure!

**Important explorer wisdom:** experienced adventurers always review their maps before embarking on important journeys. Take a few moments before test day to mentally review your successful strategies. Visualize yourself confidently tackling each type of problem. You've already proven you can handle the expedition!

Want to share discoveries from your mathematical expedition? Send your adventure stories to [reza@testinar.com](mailto:reza@testinar.com). I keep a logbook of remarkable student journeys!

**Reza Nazari & Jay Daie**

Your Math Coaches (Practice Makes Progress)

# 6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★  
PRACTICE  
WITH PURPOSE.  
ACHIEVE WITH  
CONFIDENCE.

## WHAT'S INSIDE:



### 6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



### STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



### MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



### WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



### COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



### IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



## WHY PRACTICE MAKES A DIFFERENCE



### BUILD CONFIDENCE

Feel prepared and ready for any challenge.



### IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



### THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



### MANAGE TIME

Practice under timed conditions to build stamina.



### STAY MOTIVATED

Track progress and celebrate every win.



### ACHIEVE SUCCESS

Reach goals and unlock your full potential!



Visit [testinar.com/math5](https://testinar.com/math5)

for more Grade 5 math resources and practice materials!



**Testinar**

Smart Practice. Stronger Results.