

# 9

# California

## CAASPP

# 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



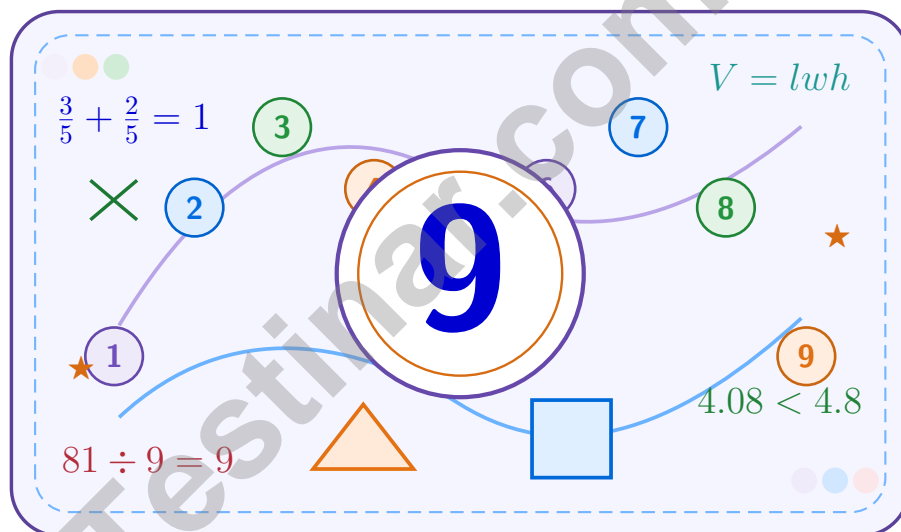
Improve Math Skills



Achieve Success

# 9 California CAASPP 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](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 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 California CAASPP. 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	_____	30
★ Practice Test 3	_____	44
★ Practice Test 4	_____	58
★ Practice Test 5	_____	73
★ Practice Test 6	_____	89
★ Practice Test 7	_____	104
★ Practice Test 8	_____	121
★ Practice Test 9	_____	136
<b>Practice Test Answer Keys</b>	_____	<b>151</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>157</b>

## 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 rectangle is divided into 10 equal sections. One section is  $\frac{1}{10}$  of the rectangle. This section is divided into 2 equal parts. What fraction of the whole rectangle is each small part?

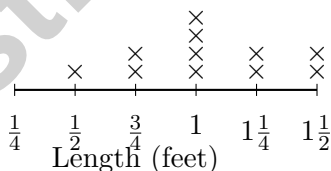
each small part?



10 equal sections

- A.  $\frac{1}{20}$ 
 C.  $\frac{1}{10}$   
 B.  $\frac{1}{5}$ 
 D.  $\frac{1}{8}$
- 2) Solve:  $\_\_ \times 10^2 = 4500$
- A. 45000
  C. 4500  
 B. 450
  D. 45
- 3) The line plot displays string lengths (in feet) from a craft project:

**String Lengths**



What is the total length of the strings that are 1 foot or  $1\frac{1}{4}$  feet long?

- A.  $5\frac{1}{2}$  feet
  C. 7 feet  
 B.  $8\frac{1}{2}$  feet
  D.  $6\frac{1}{2}$  feet





## 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 rectangular prisms have the same base area of  $48 \text{ cm}^2$ . One has a height of 6 cm and the other has a height of 4 cm. What is the difference in their volumes?
- A.  $48 \text{ cm}^3$                        C.  $144 \text{ cm}^3$   
 B.  $96 \text{ cm}^3$                        D.  $192 \text{ cm}^3$
- 2) A ribbon is  $3\frac{1}{3}$  yards long. A decoration uses  $1\frac{1}{2}$  times that length. How many yards of ribbon are used?

*Record your answer in the space provided.*

- 3) A movie lasts  $2\frac{1}{4}$  hours. You watch  $1\frac{3}{4}$  hours. How much of the movie is left?
- A.  $\frac{1}{2}$  hr                       C. 1 hr  
 B.  $\frac{3}{4}$  hr                       D.  $1\frac{1}{4}$  hr
- 4) A video game store counts inventory. Game A: 50, 100, 150, 200. Game B: 10, 20, 30, 40. Write the relationship between A and B.

Game B	Game A
10	50
20	100
30	150
40	200

- A.  $A = 2 \times B + 30$                        C.  $A = B - 40$   
 B.  $A = B + 40$                        D.  $A = 5 \times B$



## 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 measurement is smallest?

A. 5,000 mm

C. 0.5 km

B. 50 m

D. 600 cm

2) A bakery divides 12.6 liters of milk equally among 100 portions. How much milk is in each portion?

A. 1260 liters

C. 0.126 liters

B. 126 liters

D. 1.26 liters

3) Lily ran  $\frac{5}{8}$  mile. Darius ran  $\frac{1}{3}$  mile. How much farther did Lily run?

A.  $\frac{7}{24}$  mile

C.  $\frac{7}{11}$  mile

B.  $\frac{4}{24}$  mile

D.  $\frac{9}{24}$  mile

4) A  $\frac{1}{2}$ -pound block of cheese is divided into 4 equal portions. How heavy is each portion?

*Record your answer in the space provided.*

5) An equilateral triangle and a square both have all sides equal. What attribute shows that the equilateral triangle is not a square?

*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



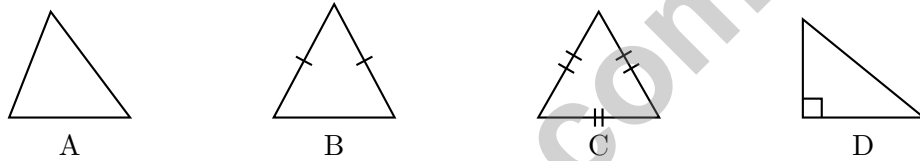
1) A rectangular prism has a base area of 24 square inches and a height of 3 inches. What is its volume?

- A. 27 cubic inches                       C. 72 cubic inches  
 B. 48 cubic inches                       D. 96 cubic inches

2) Which comparison is correct?

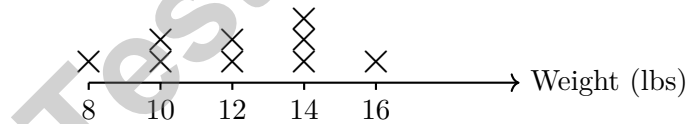
- A.  $5 \times \frac{7}{8} > 5$                                C.  $5 \times \frac{7}{8} < 5$   
 B.  $5 \times \frac{7}{8} = 5$                                D.  $5 \times \frac{7}{8}$  is undefined

3) Which diagram shows a triangle with all sides different and all angles less than 90°?



- A. A     C. C  
 B. B     D. D

4) The line plot shows the weight (in pounds) of puppies at the shelter:



Each puppy gets  $\frac{1}{2}$  cup of food. How many cups of food are needed for all the puppies?

- A. 4 cups                                       C. 5 cups  
 B.  $5\frac{1}{2}$  cups                               D.  $4\frac{1}{2}$  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 California scores.**

Testinar.com



## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(5.NF.7)** One tenth of the rectangle is split into 2 equal smaller parts. That makes each small part  $\frac{1}{10} \div 2 = \frac{1}{20}$  of the whole.
- 2) **Choice D is correct.** **(5.NBT.2)**  $10^2 = 100$ . So  $? \times 100 = 4500 \Rightarrow ? = 45$ .
- 3) **Choice D is correct.** **(5.NBT.2)** There are 4 strings that are 1 foot long and 2 strings that are  $1\frac{1}{4}$  feet long. The total is  $4(1) + 2(1\frac{1}{4}) = 4 + 2\frac{1}{2} = 6\frac{1}{2}$  feet.
- 4) **Choice D is correct.** **(5.NBT.2)** Use the inverse of multiplying by 100: divide 45 by 100. Moving two places left gives 0.45.
- 5) **Choice A is correct.** **(5.NBT.2)** The base area is 56 square centimeters. Since  $336 \div 56 = 6$ , the water is 6 cm deep.
- 6) **Choice B is correct.** **(5.MD.5)** The number is 9.428. In expanded form:  $9 + 0.4 + 0.02 + 0.008$ .
- 7) **Choice B is correct.** **(5.NBT.2)** The digits shift two places to the right: 3 tens and 5 ones = 35.
- 8) **Choice C is correct.** **(5.NF.2)** Common denominator 12:  $\frac{5}{12}$  and  $\frac{1}{4} = \frac{3}{12}$ . Difference:  $\frac{5}{12} - \frac{3}{12} = \frac{2}{12}$ . Cotton is more.
- 9) **Choice D is correct.** **(5.NF.7)**  $7 \div \frac{1}{2} = 7 \times 2 = 14$ .
- 10) **Choice A is correct.** **(5.NF.7)**  $76 \times 1,000 = 76,000$ . In 76,000, the digit 6 is in the thousands place.
- 11) **The correct answer is 0.7.** **(5.NBT.2)** Hundredths digit is 4, less than 5, so the tenths digit stays at 7: 0.7.
- 12) **Choice C is correct.** **(5.NBT.4)**  $6 \times 4 = 24$  unit cubes total (6 cubes per layer, 4 layers).
- 13) **Choice D is correct.** **(5.MD.4)**  $\frac{4}{10} = \frac{2}{5}$ . Then  $\frac{2}{5} \times \frac{5}{8} = \frac{10}{40} = \frac{1}{4}$ .
- 14) **Choice C is correct.** **(5.NF.4)** Count fifths in 4 meters:  $4 \div \frac{1}{5} = 4 \times 5 = 20$  pieces.
- 15) **Choice D is correct.** **(5.NBT.6)** Partial quotients method:  $17 \times 30 = 510$ , leaving 255. Then  $17 \times 15 = 255$ . Sum:  $30 + 15 = 45$ . Check:  $17 \times 45 = 765$ .
- 16) **The correct answer is 0.55.** **(5.NBT.7)** Compare as thousandths: 0.600, 0.550, and 0.605. The least is 0.55.
- 17) **Choice B is correct.** **(5.NBT.7)**  $8 \times \frac{1}{2} = 4$  yards. The bar diagram shows the scaled length is half the original, as  $\frac{1}{2} < 1$ .
- 18) **The correct answer is  $(6 \times 10) \div 2$ .** **(5.OA.1)** The result of  $6 \times 10$  is divided by 2, so write  $(6 \times 10) \div 2$ . Equivalent expressions that preserve this order are also acceptable.
- 19) **The correct answer is (4, 2).** **(5.OA.1)** Moving 4 units right gives an  $x$ -coordinate of 4. Moving 2 units up gives a  $y$ -coordinate of 2, so the point is (4, 2).
- 20) **Choice D is correct.** **(5.G.1)** 29 out of 100 squares shaded represents  $\frac{29}{100} = 0.29$ .
- 21) **Choices A, B are correct.** **(5.NBT.7)** Multiplying 12 by a factor greater than 1 makes a product greater than 12, so A and B work. C and D have factors less than 1, so those products are less than 12.
- 22) **Choice D is correct.** **(5.NF.6)** Use total amount divided by the size of one piece. The equation is  $4 \div \frac{1}{3} = n$ .
- 23) **Choice D is correct.** **(5.NF.6)** Rule A gives 6, 9, 12, 15 and Rule B gives 1, 3, 5, 7. The next ordered pair is (15, 7).
- 24) **Choice A is correct.** **(5.NF.1)** LCM(3,4,6) = 12.  $\frac{1}{3} = \frac{4}{12}$ ,  $\frac{1}{4} = \frac{3}{12}$ ,  $\frac{1}{6} = \frac{2}{12}$ .  $\frac{4}{12} + \frac{3}{12} + \frac{2}{12} = \frac{9}{12} = \frac{3}{4}$ .
- 25) **Choice D is correct.** **(5.OA.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.1)** The products are 5, 25, and 45 respectively. They increase with the factor size.
- 27) **Choice B is correct.** **(5.OA.1)** When an expression has only division, work from left to right. First  $32 \div 4 = 8$ , then  $8 \div 2 = 4$ .
- 28) **Choice D is correct.** **(5.OA.1)** Find each part first: Prism A is  $7 \times 4 \times 3 = 84$  cubic meters, and Prism B is  $6 \times 2 \times 5 = 60$  cubic meters. Because the parts do not overlap, add them:  $84 + 60 = 144$  cubic meters.
- 29) **Choice C is correct.** **(5.NBT.5)** Multiply:  $225 \times 4 = (200 \times 4) + (20 \times 4) + (5 \times 4) = 800 + 80 + 20 = 900$ .
- 30) **Choice B is correct.** **(5.NBT.5)** The blue region covers 4 out of 6 columns. The red region covers 2 out of 3 rows. The overlap is  $\frac{4}{6} \times \frac{2}{3}$ .



## Captain of Your Own Math Plane,

◇ 9 practice tests behind you. That's many flights logged in your math airplane. You've handled clear weather, turbulence, tricky landings, and long routes. You're a real pilot now. ◇

★ **Pilots know:** a good pre-flight check makes for a good flight. Before each test problem, do your check: read the question, look at the numbers, pick a strategy. That short check makes the rest of the flight smooth. ★

### Flight Crew Skills

- **Pre-flight Check:** CONSISTENT! You read questions carefully.
- **Navigation:** STRONG! You pick a clear strategy.
- **Steady Flight:** STEADY! You stay calm through long tests.
- **Landing:** SHARP! You always check your final answer.

**Pilot's tip:** on test day, don't fly the whole flight in your head before takeoff. Just take off. Then handle one problem at a time. Trust your training. You've earned your wings.

If you want to share a proud moment or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com). I'd love to hear from you!

**Jay Daie**

Your Math Pilot (Clear Skies Ahead)

# 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](https://testinar.com/math5)

for more Grade 5 math resources and practice materials!



Aligned to Standards



Created by Educators



Trusted by Parents & Teachers