

# 7

# Oregon

# OSAS

## GRADE 5

# MATHEMATICS

## PRACTICE TESTS

✓  
**PRACTICE  
PREPARE  
SUCCEED**

★★★

Comprehensive Standards-Aligned  
Review for Strong Grade 5  
Math Performance



$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH  
PRACTICE TESTS**

Realistic style  
questions



**STANDARDS-  
ALIGNED**

Covers all Grade 5  
standards



**BUILD CONFIDENCE**

Target weak areas  
and improve  
performance



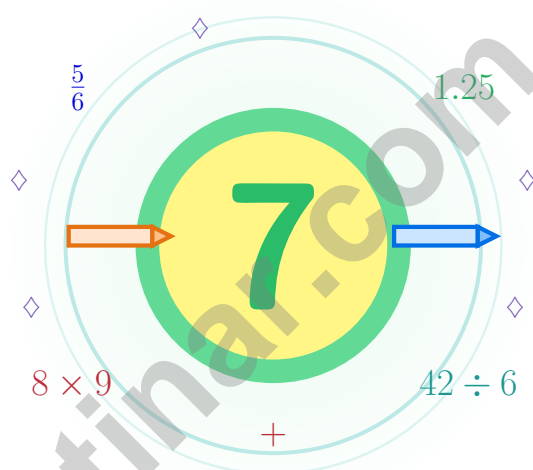
**ACHIEVE SUCCESS**

Develop skills,  
stay prepared,  
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

# 7 Oregon OSAS Grade 5 Math Practice Tests

*A seven-step expedition for curious Grade 5 thinkers*



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Beaver State into steady, confident growth from page one to the final check.

**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 ©*

# Hello, Oregon – Seven Tests, Steady Growth

Seven chances to read carefully, solve smartly, and grow stronger

## To Oregon Students Who Love a Puzzle

This practice book is your steady companion for seven tests, not a place to be perfect. Math thinking is like Crater Lake – it looks calm on the surface, and goes a long way down once you start exploring.

Use these seven 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 across seven rounds.

### See

See the question fully before you start the math.

### Plan

Pick a strategy that fits the numbers in front of you.

### Build

Build the answer step by step, no shortcuts.

**A strong habit for Oregon mathematicians:** 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.

Testinar.com



Scan me



# How This Book Wants to Help

A simple routine that turns practice into progress

## Step 1: Set Up

**Pencil ready, distractions gone.**

Spend a few minutes waking up your memory before the test begins.

## Step 2: Work the Test

**Take a full test like the real day.**

Work in a calm spot and focus on careful thinking before speed.

## Step 3: Look Back

**Walk through your answers without rushing.**

Circle missed questions and notice which topics keep showing up.

## Step 4: Climb Higher

**Pick one or two skills to sharpen next.**

Read the explanation, repair the work, and bring that lesson into the next test.

## A Good 7-Week Oregon Rhythm

<b>Week 1</b>	Take Test 1 and read your lake's surface.
<b>Week 2</b>	Take Test 2 and slow down on word problems.
<b>Week 3</b>	Take Test 3 and lift fraction and decimal work.
<b>Week 4</b>	Take Test 4 and pay close attention to labels and units.
<b>Week 5</b>	Take Test 5 and compare your habits with your first test.
<b>Week 6</b>	Take Test 6 and practice staying calm during tricky questions.
<b>Week 7</b>	Take Test 7 with calm, deep, careful focus.



# Table of Contents

★ Practice Test 1	_____	21
★ Practice Test 2	_____	37
★ Practice Test 3	_____	52
★ Practice Test 4	_____	67
★ Practice Test 5	_____	81
★ Practice Test 6	_____	97
★ Practice Test 7	_____	113
<b>Practice Test Answer Keys</b>	_____	<b>128</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>133</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 paint can is  $\frac{5}{6}$  full. If  $\frac{2}{6}$  is used to paint a door, how much paint remains?

- A.  $\frac{1}{6}$   
 B.  $\frac{2}{6}$

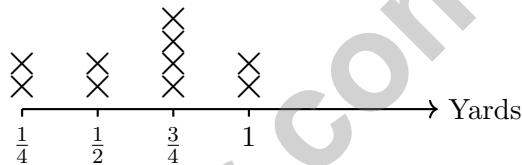
- C.  $\frac{1}{2}$   
 D.  $\frac{7}{6}$

2) A student answered  $\frac{18}{20}$  of test questions correctly. If there are 40 questions, how many did the student answer correctly?

- A. 30 questions  
 B. 35 questions

- C. 38 questions  
 D. 36 questions

3) The line plot shows ribbon lengths in yards:



What is the difference between the total length of the ribbons measuring  $\frac{3}{4}$  yard and the total length of the ribbons measuring  $\frac{1}{4}$  yard?

- A.  $1\frac{1}{2}$  yards  
 B. 2 yards

- C.  $2\frac{1}{2}$  yards  
 D. 3 yards

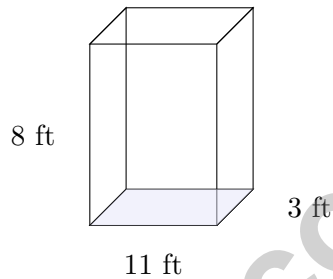
4) Find:  $\frac{7}{8} \times 4$ .

*Record your answer in the space provided.*



5) Find:  $5,600 \div 10^2$ .

*Record your answer in the space provided.*



6)

Compute volume.

- A.  $264 \text{ ft}^3$                        C.  $33 \text{ ft}^3$   
 B.  $22 \text{ ft}^3$                                D.  $88 \text{ ft}^3$

7) A library counts books. Fiction books: 100, 200, 300, 400. Non-fiction books: 25, 50, 75, 100. Complete the table for the 4th entry.

Fiction	Non-Fiction	Ordered Pair
100	25	(100, 25)
200	50	(200, 50)
300	75	(300, 75)
400	?	(400, ?)

- A. 80                                               C. 120  
 B. 100                                               D. 150



## 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

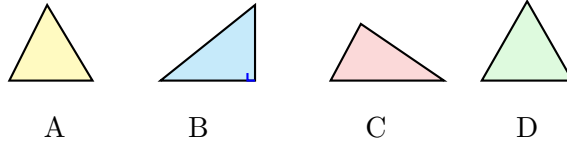
1 day = 24 hours (hr)    1 year = 52 weeks



1) A recipe calls for 2 cups of milk. How many quarts is that? (1 quart = 4 cups)

- A.  $\frac{1}{4}$  quart
- B.  $\frac{1}{2}$  quart
- C. 1 quart
- D. 2 quarts

2) Look at the triangles. Which one is a right triangle?



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

3) A student claims: "A rhombus is never a rectangle." Explain why this statement is **SOMETIMES INCORRECT**.

- A. A square is both a rhombus and a rectangle.
- B. Rhombuses always have right angles.
- C. Rectangles never have equal sides.
- D. A rhombus cannot be a quadrilateral.

4) A storage box has volume 180 cubic centimeters. Its base is 9 centimeters by 5 centimeters. What is its height?

*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) Order these products from smallest to largest:  $4 \times \frac{1}{4}$ ,  $4 \times 1$ ,  $4 \times 2$ .

A.  $4 \times 2 < 4 \times 1 < 4 \times \frac{1}{4}$

B. All are equal

C.  $4 \times 1 < 4 \times \frac{1}{4} < 4 \times 2$

D.  $4 \times \frac{1}{4} < 4 \times 1 < 4 \times 2$

2) A fabric project uses  $\frac{5}{6}$  yard of blue cloth. Red cloth needed is  $\frac{1}{3}$  yard. How much total cloth?

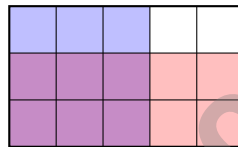
A.  $\frac{4}{6}$  yard

B.  $\frac{7}{6}$  yards

C.  $\frac{6}{9}$  yard

D.  $\frac{2}{3}$  yard

3) Use the area model below to find  $\frac{2}{3} \times \frac{3}{5}$ .



Record your answer in the space provided.

4) Find:  $0.05 \times 8$ .

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

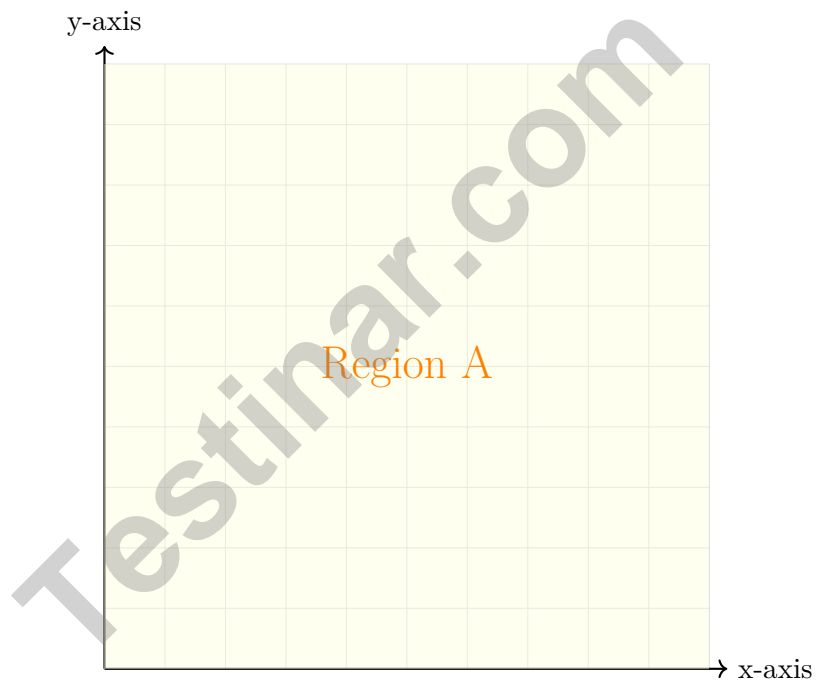
1 day = 24 hours (hr)    1 year = 52 weeks



1) A student wrote the expanded form of 9.452 as  $9 + 0.4 + 0.005 + 0.002$ . What error did the student make?

- A. This is the correct expanded form for 9.452.
- B. The hundredths term should be 0.05, not 0.005.
- C. The expanded form has five place values, but we can only use four.
- D. The student added fractions instead of decimal values.

2) The shaded region is to the right of the y-axis and above the x-axis. Which point could be located in this region?



- A. (4, 6)
- B. (0, 6)
- C. (4, 0)
- D. (0, 0)



## 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



Scan me

## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (5.NF.A.2)  $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$ . Subtract the numerators when denominators are the same, then simplify.
- 2) **Choice D is correct.** (5.NF.B.6)  $\frac{18}{20} \times 40 = \frac{18 \times 40}{20} = \frac{720}{20} = 36$  questions.
- 3) **Choice C is correct.** (5.DR.A.1) There are four ribbons at  $\frac{3}{4}$  yard, for a total of 3 yards. There are two ribbons at  $\frac{1}{4}$  yard, for a total of  $\frac{1}{2}$  yard. The difference is  $2\frac{1}{2}$  yards.
- 4) **The correct answer is  $3\frac{1}{2}$ .** (5.NF.B.4) Four copies of  $\frac{7}{8}$  make  $\frac{28}{8}$ . Divide 28 by 8 to get  $3\frac{4}{8}$ , which simplifies to  $3\frac{1}{2}$ .
- 5) **The correct answer is 56.** (5.NBT.A.2)  $10^2 = 100$ . Dividing by 100 removes two zeros (or moves decimal two places left): 5,600  $\rightarrow$  56.
- 6) **Choice A is correct.** (5.GM.D.6)  $V = 11 \times 3 \times 8 = 33 \times 8 = 264$  ft<sup>3</sup>.
- 7) **Choice B is correct.** (5.OA.B.3) Non-fiction is  $\frac{1}{4}$  of Fiction:  $100 \div 4 = 25$ ,  $200 \div 4 = 50$ ,  $300 \div 4 = 75$ ,  $400 \div 4 = 100$ .
- 8) **Choice B is correct.** (5.NF.A.1) Add whole parts:  $4 + 2 = 6$ . Add fractions:  $\frac{3}{8} + \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$ . Result:  $6\frac{1}{2}$ .
- 9) **Choice D is correct.** (5.NBT.A.3) 67 out of 100 squares shaded represents  $\frac{67}{100} = 0.67$ .
- 10) **Choice C is correct.** (5.NF.A.1)  $8\frac{5}{6} - 3\frac{2}{6}$ : subtract whole numbers  $8 - 3 = 5$  and fractions  $\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$ . Combine to get  $5\frac{3}{6}$ , which simplifies to  $5\frac{1}{2}$  yd.
- 11) **Choice D is correct.** (5.GM.D.6) Volume = length  $\times$  width  $\times$  height =  $5 \times 4 \times 3 = 60$  cm<sup>3</sup>.
- 12) **Choice A is correct.** (5.NBT.A.2)  $6.8 \times 100 = 680$ . The student should move the decimal 2 places right, not leave it unchanged at 6.80.
- 13) **Choice A is correct.** (5.NBT.B.5) Multiply:  $347 \times 5 = (300 \times 5) + (40 \times 5) + (7 \times 5) = 1,500 + 200 + 35 = 1,735$ .
- 14) **Choice A is correct.** (5.NF.B.7) Use total amount divided by the size of one piece. The equation is  $9 \div \frac{1}{6} = n$ .
- 15) **Choice B is correct.** (5.NF.B.5) A gives  $1\frac{1}{2}$ , B gives  $13\frac{1}{2}$ , and C gives 18. The value  $13\frac{1}{2}$  is closest to 15, so B is correct.
- 16) **Choice A is correct.** (5.DR.A.1) Count X marks below  $\frac{3}{4}$ : at  $\frac{1}{4}$  (1) and  $\frac{1}{2}$  (3). Total:  $1 + 3 = 4$ .
- 17) **Choice C is correct.** (5.NF.B.7) Start with one unit fraction,  $\frac{1}{4}$ , and share it into 4 equal parts. Each part is  $\frac{1}{4} \div 4 = \frac{1}{16}$  of the whole.
- 18) **Choice C is correct.** (5.GM.A.2) The four points form a quadrilateral with four right angles and opposite sides equal. This is a rectangle with width 6 units and height 4 units.
- 19) **Choice A is correct.** (5.NBT.B.6) Round:  $678 \approx 690$  and  $23 \approx 23$ . Use  $690 \div 23 \approx 30$ . Actual:  $678 \div 23 = 29$  R11.
- 20) **Choices A, B are correct.** (5.NF.B.6) Multiply straight across:  $\frac{2}{3} \times \frac{3}{5} = \frac{6}{15} = \frac{2}{5}$ . C comes from adding instead of multiplying, and D is false because multiplying by a fraction less than 1 makes the amount smaller.
- 21) **Choice B is correct.** (5.GM.D.6) Volume =  $10 \times 8 \times 4 = 80 \times 4 = 320$  in<sup>3</sup>.
- 22) **Choice C is correct.** (5.NF.A.1) LCM(8,12) = 24.  $\frac{3}{8} = \frac{9}{24}$  and  $\frac{5}{12} = \frac{10}{24}$ .  $\frac{9}{24} + \frac{10}{24} = \frac{19}{24}$  liter.
- 23) **Choice D is correct.** (5.NF.B.6) To find the missing product, compute  $3 \times 1\frac{2}{3} = 3 \times \frac{5}{3} = 5$ .
- 24) **Choice C is correct.** (5.NF.A.2)  $\frac{5}{6} = \frac{5 \times 4}{6 \times 4} = \frac{20}{24}$  and  $\frac{3}{8} = \frac{3 \times 3}{8 \times 3} = \frac{9}{24}$ .
- 25) **Choice D is correct.** (5.NBT.B.7)  $6.50 - 4.18 = 2.32$  miles. Annex a zero to 6.5 for alignment.
- 26) **Choice B is correct.** (5.NF.B.7) Check the choices by thinking about half-size groups. Since  $8 \div \frac{1}{2} = 8 \times 2 = 16$ , the whole number is 8.
- 27) **The correct answer is 30 apples.** (5.GM.A.2) The  $x$ -coordinate is 5, so it represents 5 bags. The  $y$ -coordinate is 30, so it represents 30 apples.
- 28) **Choice D is correct.** (5.NBT.A.1) The chart shows 0 ones, 6 tenths, 0 hundredths, and 9 thousandths:  $0 + 0.6 + 0 + 0.009 = 0.609$ .
- 29) **Choice D is correct.** (5.NBT.A.2) The table shows  $25.4 \div 10 = 2.54$ . Decimal moves 1 place left.



**Strong Finish**

---

## Hello, Math Star!

★ Seven practice tests later, you've built real math confidence. Confidence means you can face a problem, stay calm, and keep working until you understand it. ★

◇ **That's what a strong finish looks like:** careful reading, smart strategies, and steady effort from start to end. ◇

### Finish Like a Pro

- **Pace yourself:** don't rush the first half.
- **Use scratch work:** write steps clearly.
- **Save time:** leave a few minutes to review.
- **Fix small errors:** check signs, units, and place value.

**I'm proud of your effort.** Keep that same steady focus on test day.

You can reach me at [reza@testinar.com](mailto:reza@testinar.com).

**Reza Nazari & Jay Daie**

Your Math Coaches (Finish Strong)

Testinar.com

# PRACTICE TODAY. PERFORM TOMORROW.

Success in math starts with practice! This book provides the **practice, confidence, and skills** your child needs to excel on the Grade 5 Math test and beyond.

## KEY BENEFITS:



### TARGETED PRACTICE

Focus on the most important Grade 5 math skills.



### STANDARD-ALIGNED

All tests align with state standards for Grade 5.



### BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



### IMPROVE PERFORMANCE

Timed practice helps improve speed and accuracy.



### ACHIEVE SUCCESS

Develop strong test-taking skills and achieve your best score!

## PERFECT FOR:

✓ Classroom Practice

✓ Homework Help

✓ Test Preparation

✓ Summer Learning

✓ On-the-Go Practice

✓  
PRACTICE  
PREPARE  
SUCCEED  
★★★

## STRONG SKILLS. BRIGHT FUTURE.

Give your child the tools they need to succeed in math and in life!



Visit [testinar.com/math5](https://testinar.com/math5) for more Grade 5 math resources and practice materials!



TRUSTED  
BY PARENTS

Quality resources you can trust.



DESIGNED  
FOR SUCCESS

Proven practice for real results.



SUPPORT  
YOUR CHILD

Every step of the way.