

$\frac{2}{3}$

0,25

**FULL-LENGTH****Nevada**

Aligned to State Standards

**Smarter Balanced**

$\frac{2}{4}$

$7 \times 8 =$



$7 \times 8$

$56 \div 7$

**MATH**

Grade

**5**

$(a+b)^2$

**PRACTICE TESTS**

**Complete State Standards Review  
with Answer Key and  
Essential Math Skills Practice**



**3 Full-Length Practice Tests**  
Aligned to State Standards



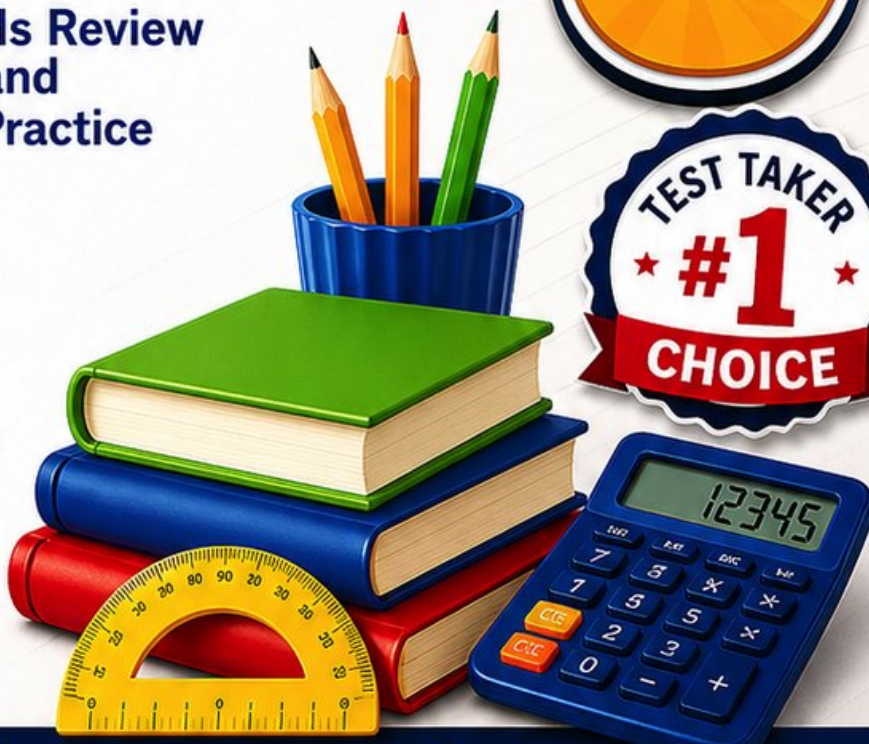
**Covers All Grade 5 Math Topics**  
Numbers & Operations, Fractions,  
Decimals, Geometry, Measurement,  
Data & Problem Solving



**Build Confidence**  
Strengthen Skills • Improve Accuracy  
• Boost Test Readiness



**Detailed Answer Key**  
Step-by-Step Explanations  
for All Questions



**WRITTEN FOR  
GRADE 5 STUDENTS**



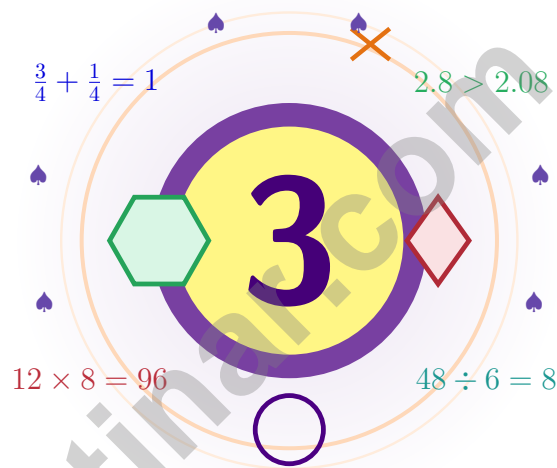
**PERFECT FOR  
TEST PREP & REVIEW**



**CLASSROOM, HOME,  
OR SELF-STUDY USE**

# 3 Nevada Smarter Balanced Grade 5 Math Practice Tests

*Silver-state math for clear-eyed problem solvers*



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The Silver State walk in ready to think.

**Jay Daie and Reza Nazari**



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# Open the Door, Nevada – Math Awaits

Silver-state math for clear-eyed problem solvers

## An Invitation to Grade 5 in Nevada

Math thinking shines like silver – it takes a little polishing, but the brightness is already there.

Some questions will feel easy from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

### Look

Look at the problem like a detective looks at a clue.

### Test

Test your idea with one careful step at a time.

### Grow

Grow stronger by reviewing exactly what tripped you up.

**A Nevada promise to yourself:** I will polish my thinking with every careful step until the shine starts to show.

# A Simple Path Through This Book

A simple game plan that turns practice into real progress

## Step 1: Read

**Read the quick review pages first.**  
Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

## Step 2: Try

**Try one test with full attention.**  
Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

## Step 3: Reflect

**Reflect on which skills want more sunlight.**  
Circle missed questions, sort out what went sideways, and notice which skills are calling for more attention.

## Step 4: Lift

**Lift those skills with practice before test 2.**  
Read the explanation, fix the work, and carry that lesson forward into the next test.

## Practice Plan for Nevada Grade 5

<b>Week 1</b>	Use Test 1 to scout the territory.
<b>Week 2</b>	Use Test 2 to repair the trail.
<b>Week 3</b>	Use Test 3 to walk it cleanly from start to finish.



Scan me

# Inside the Practice Tests

## What these practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Silver State for the Nevada Smarter Balanced with the steady focus of a desert hiker. The goal is bigger than getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, ruling out weak choices, and checking for reasonableness can save both time and points.

### Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually found.

### Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

**What strong work looks like on the Smarter Balanced:** the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers the question being asked.



# Table of Contents

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## 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





- 6) A garden bed is  $4\frac{1}{2}$  ft long and 2 ft wide. What is its area?

*Record your answer in the space provided.*

- 7) What is  $\frac{8}{12}$  in simplest form?

- A.  $\frac{1}{2}$   
 B.  $\frac{4}{5}$

- C.  $\frac{3}{4}$   
 D.  $\frac{2}{3}$

- 8) One seventh meter of wire is cut into 2 equal pieces. Which division equation finds each share?

- A.  $2 \div \frac{1}{7} = n$   
 B.  $\frac{1}{7} \times 2 = n$

- C.  $\frac{1}{7} \div 2 = n$   
 D.  $2 + \frac{1}{7} = n$

- 9) Compare  $\frac{3}{4}$  and  $\frac{5}{6}$  by rewriting with a common denominator. Which is greater?

Fraction	LCD	Equivalent
$\frac{3}{4}$	12	$\frac{9}{12}$
$\frac{5}{6}$	12	$\frac{10}{12}$

- A.  $\frac{3}{4}$   
 B. Cannot tell

- C. They are equal  
 D.  $\frac{5}{6}$



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- 1) A construction graph records bricks. The x-axis shows hours, and the y-axis shows bricks laid. What does the point (10, 200) mean?
- A. hours is 200 when bricks laid is 10       C. bricks laid is 10 when hours is 200  
 B. hours and bricks laid are both 210       D. bricks laid is 200 when hours is 10
- 2) The place-value chart shows the result of multiplying 0.29 by a power of 10. The result is 290. What power of 10 was used?

Hundreds	Tens	Ones	Tenths	Value
2	9	0	0	290

- A.  $10^1$        C.  $10^3$   
 B.  $10^2$        D.  $10^4$
- 3) A shipping container has volume 800 cubic meters. Its base is 20 m by 8 m. What is the height of the container?
- A. 4 m       C. 6 m  
 B. 5 m       D. 8 m



## 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.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(5.MD.C.4)** The base has  $10 \times 5 = 50$  unit cubes. Since  $100 \div 50 = 2$ , the prism has 2 layers.
- 2) **Choice B is correct.** **(5.G.B.4)** A parallelogram has both pairs of opposite sides parallel. Its opposite sides are also equal in length.
- 3) **Choice A is correct.** **(5.NBT.B.7)** Subtract:  $5.72 - 2.45 = 3.27$ . Check:  $2.45 + 3.27 = 5.72$ .
- 4) **Choice D is correct.** **(5.NF.A.2)**  $\frac{3}{4} - \frac{1}{6}$ : common denominator is 12.  $\frac{3}{4} = \frac{9}{12}$  and  $\frac{1}{6} = \frac{2}{12}$ . So  $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$ .
- 5) **Choice C is correct.** **(5.NBT.B.7)** Line up decimal points and subtract place by place.  $8.37 - 5.84 = 2.53$  miles remaining. This confirms the answer.
- 6) **The correct answer is 9 ft<sup>2</sup>.** **(5.NF.B.6)**  $4\frac{1}{2} \times 2 = \frac{9}{2} \times 2 = 9$ , so the area is 9 square feet.
- 7) **Choice D is correct.** **(5.NF.A.2)** The GCF of 8 and 12 is 4. Divide:  $\frac{8}{12} = \frac{8 \div 4}{12 \div 4} = \frac{2}{3}$ .
- 8) **Choice C is correct.** **(5.NF.B.7c)** The unit fraction is the amount being shared, so divide  $\frac{1}{7}$  by 2. The equation is  $\frac{1}{7} \div 2 = n$ .
- 9) **Choice D is correct.** **(5.NF.A.2)**  $\frac{3}{4} = \frac{9}{12}$  and  $\frac{5}{6} = \frac{10}{12}$ . Since  $\frac{10}{12} > \frac{9}{12}$ ,  $\frac{5}{6}$  is greater.
- 10) **Choice B is correct.** **(5.NBT.B.5)** Add the four partial products:  $300 + 20 + 150 + 10 = 480$ .
- 11) **Choice B is correct.** **(5.G.A.1)** To reach (8, 3): move 8 units right (x-coordinate), then 3 units up (y-coordinate).
- 12) **Choice A is correct.** **(5.NBT.A.2)** The diagram shows  $42.6 \div 10 = 4.26$ . Move decimal 1 place left.
- 13) **Choice A is correct.** **(5.NBT.A.2)** 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.
- 14) **Choice C is correct.** **(5.NBT.A.2)** Multiplying by 100 moves the decimal two places right, so 3.7 becomes 370.
- 15) **Choice A is correct.** **(5.G.B.3)** A square has 4 right angles, so it fits the definition of a rectangle. It also has 4 equal sides, so it fits the definition of a rhombus.
- 16) **The correct answer is 50.** **(5.OA.A.1)** Innermost first:  $8 + 2 = 10$ . Then  $10 \times 3 = 30$ . Then  $30 - 5 = 25$ . Finally  $25 \times 2 = 50$ .
- 17) **The correct answer is 100 in<sup>3</sup>.** **(5.MD.C.5a)**  $10 \times 5 \times 2 = 100$  in<sup>3</sup>.
- 18) **Choice C is correct.** **(5.MD.C.5a)** The enlarged prism has dimensions 6 units, 8 units, and 10 units. Its volume is  $6 \times 8 \times 10 = 480$  cubic units.
- 19) **Choice D is correct.** **(5.NF.B.7c)** A half-mile is  $\frac{1}{2}$  mile, and each mile has 2 half-mile laps.  $6 \div \frac{1}{2} = 12$  laps.
- 20) **The correct answer is 6.** **(5.NBT.A.3a)** In 4.06, the 6 is in the hundredths place.
- 21) **Choice A is correct.** **(5.NBT.A.3b)**  $0.54 > 0.5$ , so it is not between 0.4 and 0.5. The others all satisfy  $0.4 < x < 0.5$ .
- 22) **Choices A, B are correct.** **(5.MD.C.3b)** Volume uses cubic units because it measures three-dimensional space. Square centimeters measure area, and inches measure length, so C and D are not volume units.
- 23) **Choice A is correct.** **(5.NBT.B.7)**  $4.5 \div 5 = 0.9$ , which is between 0 and 1.
- 24) **Choice C is correct.** **(5.G.A.2)** The first coordinate, 15, matches the x-axis label: minutes played. The second coordinate, 450, matches the y-axis label: score. So the point means score is 450 when minutes played is 15.
- 25) **Choice B is correct.** **(5.MD.A.1)** First find the total weight used:  $8.5 + 4.25 = 12.75$  kg. Compare with the limit:  $12.75 - 12 = 0.75$  kg, so they go 0.75 kg over.
- 26) **Choice B is correct.** **(5.NF.B.4)** Three copies of  $\frac{3}{7}$ :  $3 \times \frac{3}{7} = \frac{9}{7} = 1\frac{2}{7}$ .
- 27) **Choice D is correct.** **(5.OA.A.2)** Cara saves \$4 each week for 6 weeks, so her savings start as  $4 \times 6$ . Then she spends \$9, so subtract 9.
- 28) **Choice A is correct.** **(5.NF.B.5b)**  $\frac{3}{7} \times \frac{2}{9} = \frac{6}{63} = \frac{2}{21}$  (divide by 3).
- 29) **Choice B is correct.** **(5.OA.A.2)** Carol is comparing copies of the same amount, (250 + 75). Two copies are more than one copy, but less than three copies.
- 30) **Choice D is correct.** **(5.NBT.A.4)** The tenths digit is 9. Since  $9 \geq 5$ , round ones up:  $25 \rightarrow 26$ . So 25.982 meters rounds to 26 m.



### Case Closed: Success Ahead

---

### Greetings, Math Detective!

◇ Outstanding investigation! You've cracked the code on 3 complete practice tests, examining every clue and solving every mathematical mystery like a brilliant detective! Each problem was a puzzle, and you methodically gathered evidence, analyzed patterns, and reached accurate conclusions. That analytical thinking you've developed will serve you well on test day and beyond! ◇

★ **Here's what master detectives know:** not every case solves itself immediately. Sometimes you need to examine the evidence from different angles, try various approaches, and remain persistent until you crack the code. You've practiced exactly that through these 3 tests! Your investigative skills have sharpened considerably, and you're ready to solve any mathematical mystery that comes your way! ★

#### Detective's Case File: Your Skills

- **Clue Collection:** You gather all important information from problems before solving!
- **Pattern Recognition:** You identify mathematical patterns like a trained investigator!
- **Evidence Analysis:** You evaluate which strategies work best for each problem type!
- **Case Resolution:** You stay focused until you've found the correct solution!

**Detective wisdom:** the best investigators take notes about their methods so they can solve similar cases faster in the future. Your brain has been doing exactly that throughout these 3 tests, storing successful strategies in your mental filing cabinet. On test day, you'll be able to retrieve those proven methods instantly!

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 Detective Coach

# Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



## WHAT'S INSIDE:



### 3 Full-Length Grade 5 Math Practice Tests

Realistic test format to build familiarity and confidence.



### Covers All Essential Math Topics

Fractions, decimals, geometry, measurement, data, number operations, and more.



### Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



### Detailed Answer Key

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Use score trackers to identify strengths and focus on areas that need more practice.



## The Smarter Way to Prepare!

Consistent practice builds stronger skills, sharper thinking, and test-day success.

- ✓ Reinforce classroom learning
- ✓ Improve accuracy and speed
- ✓ Reduce test anxiety
- ✓ Achieve your best score!



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