

9

Nevada

Smarter Balanced

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



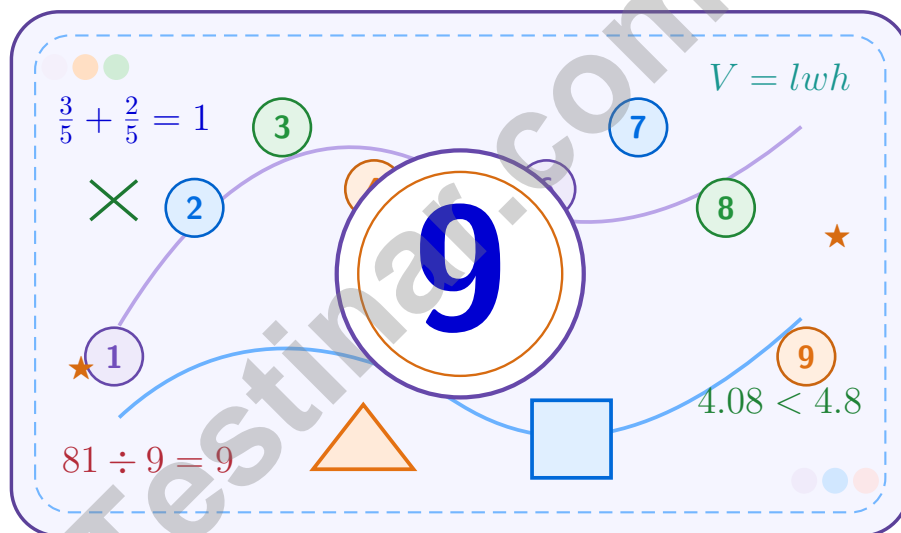
Improve Math Skills



Achieve Success

9 Nevada Smarter Balanced 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



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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.



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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 Nevada Smarter Balanced. 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.



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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

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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) What is $\frac{1}{2} \div 8$?

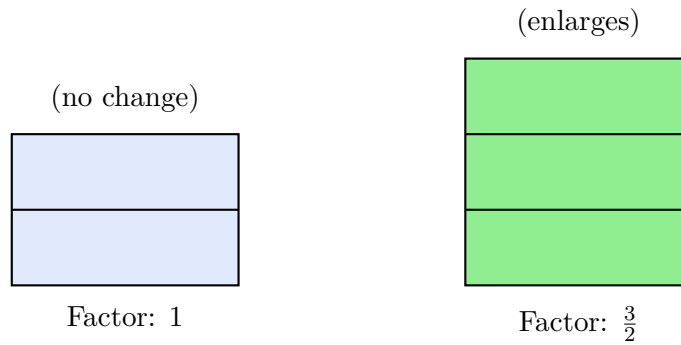


$\frac{1}{2}$ split into 8

- A. $\frac{1}{10}$ C. $\frac{8}{2}$
 B. $\frac{1}{6}$ D. $\frac{1}{16}$
- 2) A storage locker has volume 150 cubic meters. Its base is 6 meters by 5 meters. What is its height?
- A. 4 meters C. 30 meters
 B. 6 meters D. 5 meters
- 3) Write an expression for: add 25 to the product of 4 and 3, then divide the result by 2.

Record your expression in the space provided.





4)

If one 8-unit length is multiplied by 1, and another 8-unit length is multiplied by $\frac{3}{2}$, which result is larger?

- A. Both are equal
- B. 8×1 is larger
- C. $8 \times \frac{3}{2}$ is larger
- D. Cannot be determined

5) What is $\frac{2}{3} \times 6$?

- A. $\frac{12}{5}$
- B. 4
- C. $\frac{2}{18}$
- D. $2\frac{2}{3}$

6) Pattern A is 2, 4, 6, 8, 10. Pattern B is 6, 12, 18, 24, 30. Which statement explains the relationship between matching terms?

- A. Each Pattern B term is 2 more than the matching Pattern A term.
- B. Each Pattern B term is the same as the matching Pattern A term.
- C. Each Pattern B term is 6 less than the matching Pattern A term.
- D. Each Pattern B term is 3 times the matching Pattern A term.



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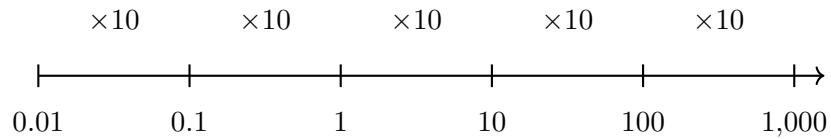
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1) Use the place-value path. Each step to the right means multiply by 10.



What is 0.01×10^3 ?

- A. 0.001
- B. 1
- C. 10
- D. 100

2)

Start: 51.8	Divide by?	Result: 0.518
-------------	------------	---------------

What power of 10 is missing?

- A. 10
- B. 100
- C. 1,000
- D. 1

3) Evaluate: $(9 - 3) \times (4 + 2) \div 4$

- A. 6
- B. 15
- C. 12
- D. 9

4) A car uses 0.08 gallons of gas per mile. How many gallons does it use over 145 miles?

Record your answer in the space provided.



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- 1) A student claims: “ $0.4 < 0.35$ because 0.4 has fewer decimal digits.” Is this reasoning correct?
- A. Yes, fewer digits always means smaller
- B. Cannot determine
- C. Yes, $0.4 < 0.35$ is always true
- D. No, the digits represent different place values
- 2) Compare the fractions $\frac{2}{5}$ and $\frac{1}{3}$ by finding a common denominator. Which statement is true?
- A. $\frac{2}{5} < \frac{1}{3}$
- B. $\frac{2}{5} > \frac{1}{3}$
- C. $\frac{2}{5} = \frac{1}{3}$
- D. Cannot compare
- 3) A fruit stand sells apples at \$0.85 per pound. If a customer buys 6.5 pounds, what is the cost to the nearest cent?
- A. \$5.25
- B. \$5.50
- C. \$5.53
- D. \$6.00



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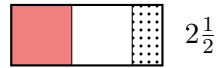
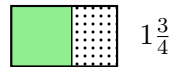
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1)

Add: $1\frac{3}{4} + 2\frac{1}{2}$

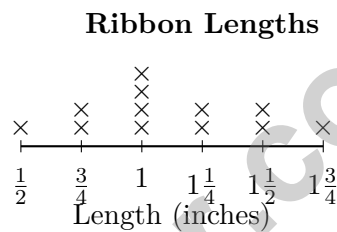
A. $3\frac{1}{4}$

B. $4\frac{1}{4}$

C. $4\frac{3}{4}$

D. $3\frac{1}{2}$

2) The line plot shows ribbon lengths measured by students:



How many ribbons are 1 inch or shorter?

A. 4

B. 5

C. 6

D. 7

3) A market has 52 shelves with 10 items each. How many items are on display?



10 items per shelf; 52 shelves total

A. 52

B. 520

C. 5200

D. 62



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 Nevada scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** **(5.NF.B.7c)** $\frac{1}{2} \div 8 = \frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$.
- Choice D is correct.** **(5.MD.C.5)** The base layer has $6 \times 5 = 30$ square units. Divide the volume by the base area: $150 \div 30 = 5$, so the height is 5 meters.
- The correct answer is $(25 + 4 \cdot 3) / 2$.** **(5.OA.A.2)** The product of 4 and 3 is 4×3 ; add 25 to that product, then divide the entire result by 2.
- Choice C is correct.** **(5.OA.A.2)** $8 \times 1 = 8$, while $8 \times \frac{3}{2} = 12$. Since $\frac{3}{2} > 1$, the second length is larger.
- Choice B is correct.** **(5.NF.B.4)** $\frac{2}{3} \times 6 = \frac{12}{3} = 4$.
- Choice D is correct.** **(5.NF.B.4)** Compare matching terms: $6 = 3 \times 2$, $12 = 3 \times 4$, $18 = 3 \times 6$, $24 = 3 \times 8$, and $30 = 3 \times 10$.
- Choice A is correct.** **(5.G.B.4)** The definition of a trapezoid is a quadrilateral with exactly one pair of parallel sides. All other options are not always true.
- Choice C is correct.** **(5.NBT.A.3b)** Subtract child revenue from adult revenue for each month and compare the decimal differences: January = $4.0 - 2.5 = 1.5$; February = $3.5 - 2.0 = 1.5$; March = $4.8 - 3.0 = 1.8$; April = $5.0 - 4.2 = 0.8$. The greatest difference is 1.8 million in March.
- Choice D is correct.** **(5.NF.B.6)** $\frac{4}{5} \times 40 = \frac{4 \times 40}{5} = \frac{160}{5} = 32$.
- Choice B is correct.** **(5.MD.C.3b)** $2 \times 4 \times 3 = 24$ cubic units. Choice A: $2 \times 3 \times 3 = 18$. Choice C: $2 \times 2 \times 5 = 20$. Choice D: $3 \times 3 \times 2 = 18$.
- Choice B is correct.** **(5.NBT.A.2)** One-hundredth means divide by 100. Move the decimal two places left: $32.7 \rightarrow 0.327$.
- Choice A is correct.** **(5.NBT.A.2)** $V = 9 \times 6 \times 7 = 378 \text{ cm}^3$.
- Choice C is correct.** **(5.MD.C.5a)** The total time is 45 minutes + 1 hour 20 minutes + 25 minutes = 2 hours 30 minutes. Add 2 hours 30 minutes to 7:00 AM to get 9:30 AM.
- Choice A is correct.** **(5.G.B.4)** A rectangle has four right angles. If it is not a square, it does not have four equal sides.
- Choice A is correct.** **(5.MD.A.1)** Convert 3 kg to grams: $3 \times 1000 = 3000$ g. Add: $3000 + 250 = 3250$ g.
- The correct answer is 9.** **(5.NBT.B.7)** Use place-value reasoning to keep the decimal in the correct place. Multiply both by 10: $72 \div 8 = 9$. This confirms the answer.
- Choice A is correct.** **(5.NBT.B.7)** 10^4 means $10 \times 10 \times 10 \times 10$, which is 10,000.
- The correct answer is 0.** **(5.NBT.A.2)** The second number is the y-coordinate; here it is 0.
- Choice D is correct.** **(5.G.A.2)** The student added before multiplying, as if the expression were $(8 + 3) \times 2$. In the original expression, multiplication comes first: $8 + (3 \times 2) = 8 + 6 = 14$.
- Choices A, B are correct.** **(5.OA.A.2)** A is true because 3 copies of $(6 + 4)$ can be written as 2 copies plus 1 more copy. B is true because 10 groups of 7 are greater than 10 groups of $7 - 1$. C adds an extra 9, and D leaves out one group of 5.
- Choice A is correct.** **(5.NBT.A.3a)** 43 out of 100 squares shaded represents $\frac{43}{100} = 0.43$.
- Choice D is correct.** **(5.NF.B.7c)** Start with one unit fraction, $\frac{1}{5}$, and share it into 2 equal parts. Each part is $\frac{1}{5} \div 2 = \frac{1}{10}$ of the whole.
- Choice D is correct.** **(5.OA.A.2)** In the first expression, only the 6 is multiplied by 4. In the second expression, the whole sum $(12 + 6)$ is multiplied by 4, so the second expression is larger.
- Choice A is correct.** **(5.OA.A.2)** $\frac{2}{3} \times \frac{2}{5} = \frac{4}{15}$. The overlap covers 4 squares out of 15 total.
- Choice D is correct.** **(5.G.A.2)** The table multiplies each input by 5. For the missing row, the input is 4, so the output is $5 \times 4 = 20$.
- Choice B is correct.** **(5.NF.A.1)** Borrow 1 from 4 to rewrite $4\frac{1}{8}$ as $3\frac{9}{8}$. Then $3\frac{9}{8} - 2\frac{7}{8} = 1\frac{2}{8}$, which simplifies to $1\frac{1}{4}$.
- Choice A is correct.** **(5.NF.A.2)** LCD = 18. $\frac{4}{9} = \frac{8}{18}$; $\frac{1}{6} = \frac{3}{18}$. $\frac{8}{18} - \frac{3}{18} = \frac{5}{18}$.
- Choice A is correct.** **(5.NF.A.2)** To find the missing number, divide: $3.7 \div 100 = 0.037$.
- Choice D is correct.** **(5.NBT.A.2)** $50 \times \frac{4}{5} = 40$ pounds. Since $\frac{4}{5} < 1$, the amount used is less than 50 pounds.



Notes From the Math Gardener

Dear Math Gardener,

◇ Look at how much you've grown! 9 practice tests is like 9 seasons of planting and harvesting. Each problem was a seed, each effort was water, and each "aha!" was sunshine. Your math garden is strong now—and it shows. ◇

★ **What gardeners know:** growth is steady, not sudden. You don't see roots growing, but they are. You don't always feel yourself getting smarter, but you are. The proof is in the questions you can solve today that felt impossible 9 tests ago. ★

Garden Inspection Report

- **Roots (foundation):** DEEP! Your basic skills are solid.
- **Stems (structure):** STURDY! Your problem-solving steps hold up.
- **Leaves (skills):** LUSH! You have many strategies to draw on.
- **Flowers (confidence):** BLOOMING! You believe in your skills.

Gardener's wisdom: keep watering your math garden long after the test. Every habit you built (read carefully, plan, check) will grow with you for years. The test is just one harvest. Your garden keeps growing.

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 Gardener (Keep Growing!)

PRACTICE MORE. ACHIEVE MORE.

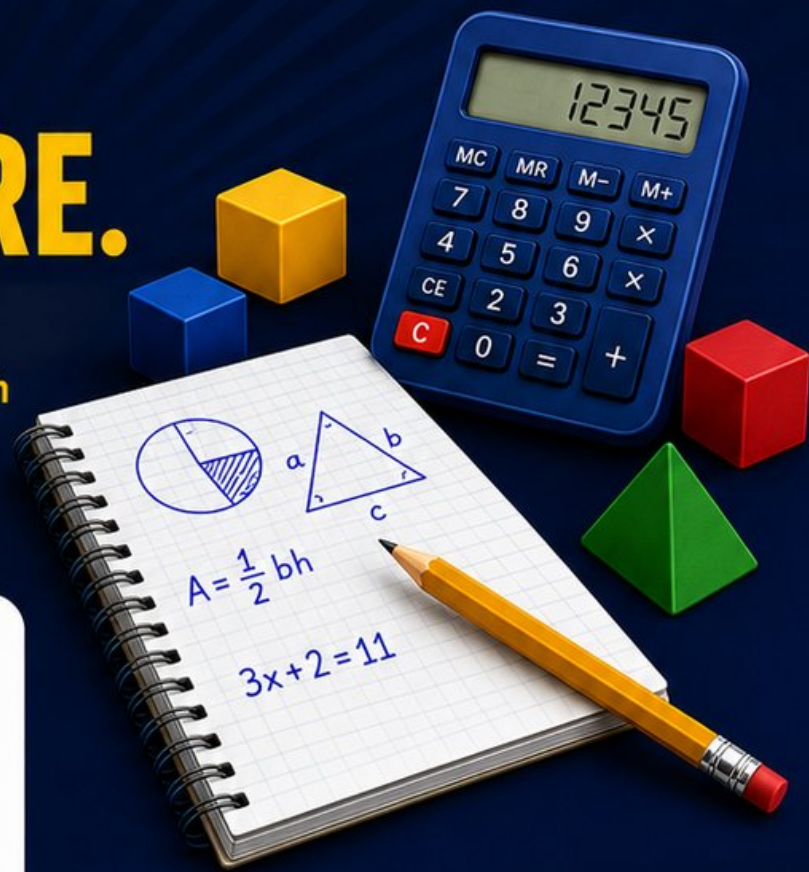
Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

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!



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