

8

Nevada

Smarter Balanced

GRADE 7

MATH

PRACTICE TESTS



Standards Aligned
Problem Solving

For Comprehensive
Assessment Programs



8 PRINTED TESTS



2 ONLINE TESTS



Use these two additional online practice tests
for **extra review** after the printed tests in this book.



BUILD CONFIDENCE



STRENGTHEN SKILLS



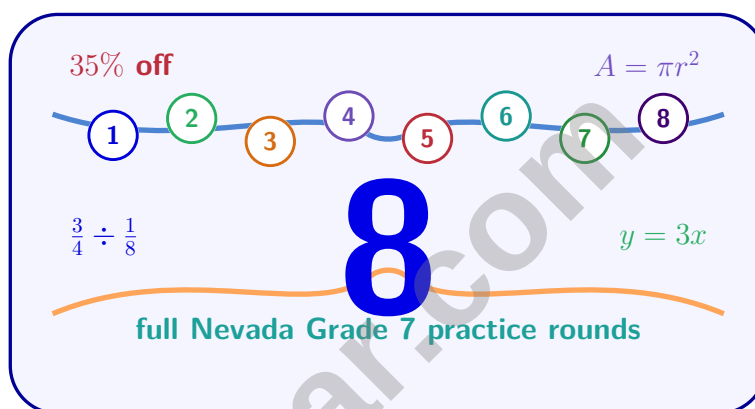
THINK SMARTER



BE TEST-READY

8 Nevada Smarter Balanced Grade 7 Math Practice Tests

A focused boost for Nevada Grade 7 percents, markups, equations, geometric measurement, statistics, and simulations



Eight complete 40-question Grade 7 Smarter Balanced practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Nevada Grade 7 Problem Solver!

Eight focused rounds for sharper Smarter Balanced math thinking

This book gives you eight full Grade 7 Smarter Balanced math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Nevada Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

An eight-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Nevada review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Eight Smarter Balanced tests, 320 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–8	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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For more practice
& answers

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1) Which perfect square is closest to 70?

☐ A. 64 (which is 8^2)

☐ C. 49 (which is 7^2)

☐ B. 81 (which is 9^2)

☐ D. 100 (which is 10^2)

2) Which expression is equivalent to $3(2y + 7)$?

☐ A. $6y + 21$

☐ C. $3y + 10$

☐ B. $6y + 7$

☐ D. $2y + 21$

Cost of Apples

Price per pound: \$1.50

Weight: w pounds

Total cost = ?

3)

☐ A. $1.50 + w$

☐ C. $\frac{w}{1.50}$

☐ B. $1.50w$

☐ D. $w - 1.50$

4) Which expression is equivalent to $x^2 \cdot x^7 \cdot x^3$?

☐ A. x^5

☐ C. x^{13}

☐ B. x^{12}

☐ D. x^{42}

\$25 base

\$15 per hour $\times h$

5)

Total cost C

An electrician's fee is shown as a bar diagram. The fixed fee is \$25 and the hourly rate is \$15 per hour. Which equation represents the total cost C for h hours?

☐ A. $C = 15h + 25$

☐ C. $C = 25 + 15$

☐ B. $C = 25h + 15$

☐ D. $C = (25 + 15)h$



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6) Solve for x : $3(x - 2) = x + 2$

☐ A. $x = 2$

☐ C. $x = 4$

☐ B. $x = 3$

☐ D. $x = 5$

7) Which error is most common when solving $0.2x - 5 = 3$?

☐ A. Forgetting to add 5 before dividing

☐ C. Adding 5 instead of subtracting

☐ B. Flipping the operations (subtract then divide)

☐ D. Dividing by 0.2 as if it were an integer

8) A student's score changes are shown. What is the final change?

Event	Points
Penalty	-1.5
Correct answer	+3.2
Time deduction	-0.8

☐ A. 5.5

☐ C. 0.9

☐ B. 0.1

☐ D. -0.1

9) Convert $\frac{19}{25}$ to a decimal.

☐ A. 0.19

☐ C. 0.76

☐ B. 0.25

☐ D. 0.92

10) A coach records sprint times for five athletes: 9.2, 8.8, 9.5, 9.1, 8.9 seconds. What is the average?

☐ A. 9.1 seconds

☐ C. 9.2 seconds

☐ B. 9 seconds

☐ D. 8.9 seconds



Comparing Scientific Notation

Number 1:
 2.1×10^4
 $= 21,000$

Number 2:
 3.5×10^3
 $= 3,500$

11)

Which number is larger?

☐ A. Number 1☐ B. Number 2☐ C. They are equal☐ D. Cannot determine12) Solve: $\frac{x}{6} + 1 = 3$ ☐ A. $x = 4$ ☐ B. $x = 12$ ☐ C. $x = 18$ ☐ D. $x = 24$

13) A die is rolled. It has six faces: three labeled 2, two labeled 5, and one labeled 8.
 What is $P(\text{even})$?

☐ A. $\frac{1}{6}$ ☐ B. $\frac{2}{3}$ ☐ C. $\frac{1}{3}$ ☐ D. $\frac{1}{2}$ 14) What is $-\frac{3}{5} \times (-2.5)$?☐ A. -1.5 ☐ B. 1.5 ☐ C. 2.5 ☐ D. -2.5

15) A book originally costs \$30. Which form best shows the factored structure of a 10% discount (that you keep 90% of the price)?

☐ A. $30 - 0.1(30)$ ☐ B. $30(1 - 0.1)$ ☐ C. 0.9×30 ☐ D. $30 + 10$ 

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1) Which circle below has a circumference of approximately 37.7 cm? Use $\pi \approx 3.14$.

☐ A. Radius 6 cm

☐ B. Diameter 6 cm

☐ C. Radius 6 cm, but using $C = \pi r$
(incorrect formula)

☐ D. Diameter 12 cm

2) A scale drawing has a scale of 1 cm : 0.5 m. What is the scale factor?

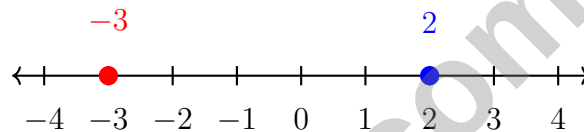
☐ A. 0.5

☐ B. 2

☐ C. 50

☐ D. 500

3) Which number is further from zero on the number line?



☐ A. 2 is further

☐ B. -3 is further

☐ C. They are equal distance

☐ D. Cannot be determined

4) Which of the following is NOT a perfect square?

☐ A. 81

☐ B. 72

☐ C. 121

☐ D. 169

5) Simplify: $5(2a + 3) - (a + 6)$.

☐ A. $10a + 15 - a - 6 = 9a + 9$

☐ B. $10a + 9$

☐ C. $11a - 6$

☐ D. $10a + 3$



- 6) A pictograph shows monthly rainfall (in inches). Legend: one raindrop symbol = 2 inches. If March's bar has 4.5 raindrop symbols, how much rain fell in March?
- ☐ A. 4.5 inches ☐ C. 9 inches
☐ B. 6.5 inches ☐ D. 13.5 inches
- 7) A bag contains 6 white socks and 4 black socks. A sock is drawn at random. What is the probability of drawing a white sock?
- ☐ A. $\frac{3}{5}$ ☐ C. $\frac{1}{2}$
☐ B. $\frac{2}{5}$ ☐ D. $\frac{4}{6}$
- 8) A student chooses a shirt from 5 options and pants from 3 options. How many different outfits are possible?
- ☐ A. 8 ☐ C. 20
☐ B. 15 ☐ D. 25
- 9) A number cube is rolled and a coin is flipped. What is $P(\text{rolling a 4 and flipping tails})$?
- ☐ A. $\frac{1}{12}$ ☐ C. $\frac{1}{6}$
☐ B. $\frac{1}{8}$ ☐ D. $\frac{7}{12}$
- 10) A game uses a spinner divided into 8 equal sections. The spinner was spun 800 times. One section appeared 85 times. Comparing the experimental and theoretical probabilities, which statement is true?
- ☐ A. Both equal $\frac{1}{8}$. ☐ C. Experimental is higher than theoretical.
☐ B. Experimental is $\frac{85}{800}$; theoretical is $\frac{1}{8}$. ☐ D. Theoretical is higher than experimental.



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- 1) A student notices that two different items both cost \$60 after discount. Item 1 had a 20% discount; Item 2 had a \$15 discount. What were their original prices?

☐ A. Both were \$60
☐ B. Item 1: \$60; Item 2: \$45
☐ C. Item 1: \$75; Item 2: \$60
☐ D. Item 1: \$75; Item 2: \$75

- 2) A jacket on sale costs \$51. The original price was \$60. What percent discount was applied?

- 3) A stem-and-leaf plot shows quiz scores for two students. Student A: Stem 6: Leaves 2, 8 | Stem 7: Leaves 1, 5, 9 | Stem 8: Leaves 3, 6. Student B: Stem 6: Leaves 4 | Stem 7: Leaves 2, 7 | Stem 8: Leaves 0, 4, 8. How many total scores are represented?

☐ A. 9 scores
☐ B. 11 scores
☐ C. 12 scores
☐ D. 13 scores

- 4) Point $R(2, 5)$ is reflected over the line $y = x$. What are the new coordinates?

☐ A. $(5, 2)$
☐ B. $(-2, -5)$
☐ C. $(2, -5)$
☐ D. $(-5, -2)$



5)

Color	Purple	Orange	Pink
Probability	$\frac{2}{7}$	$\frac{2}{7}$	$\frac{3}{7}$

Is this a valid probability model?

- ☐ A. Yes, each probability is positive. ☐ C. No, Orange and Purple should have different probabilities.
☐ B. No, the probabilities sum to more than 1. ☐ D. Yes, each probability is at most 1 and they sum to 1.
- 6) Three events have probabilities: Event A = $\frac{1}{2}$, Event B = 0.6, Event C = 55%. Which event is most likely?
- ☐ A. Event A ☐ C. Event C
☐ B. Event B ☐ D. Events A and C are equally likely

7) Expand: $(3m - 1) \cdot (-4)$

- ☐ A. $-12m + 4$ ☐ C. $12m - 4$
☐ B. $-12m - 4$ ☐ D. $-12m - 1$

8) A student is asked to evaluate $-3 - (-5)$ and writes:

Step 1: Change to addition: $-3 - (-5) = -3 - 5$

Step 2: Add the values: $-3 - 5 = -8$

Which statement is correct?

- ☐ A. Both steps are correct ☐ C. Step 2 is wrong; should be $-3 + 5 = 2$
☐ B. Step 1 is wrong; should be $-3 + 5$ ☐ D. Choices B and C are both correct



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Nevada Smarter Balanced Grade 7 Practice Test Answer Keys

How to use this section with a Grade 7 student:

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Nevada Smarter Balanced practice test.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (7.NS.1-7.NS.3) $70 - 64 = 6$ and $81 - 70 = 11$. Since $6 < 11$, the perfect square 64 is closest to 70.
- 2) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute: $3(2y + 7) = 3(2y) + 3(7) = 6y + 21$. Check: factor back to verify.
- 3) **Choice B is correct.** (7.EE.1-7.EE.2) Multiply price per pound by number of pounds: $1.50w$.
- 4) **Choice B is correct.** (7.EE.1-7.EE.2) Add all exponents: $x^2 \cdot x^7 \cdot x^3 = x^{2+7+3} = x^{12}$.
- 5) **Choice A is correct.** (7.EE.4a) Fixed fee (\$25) plus hourly charge (\$15h) gives $C = 15h + 25$.
- 6) **Choice C is correct.** (7.EE.4a) Distribute: $3x - 6 = x + 2$. Subtract x : $2x - 6 = 2$. Add 6: $2x = 8$. Divide by 2: $x = 4$.
- 7) **Choice A is correct.** (7.EE.3-7.EE.4) Correct: Add 5: $0.2x = 8$. Divide: $x = 40$. Common error: dividing immediately $x = \frac{3}{0.2} = 15$ (wrong).
- 8) **Choice C is correct.** (7.NS.1-7.NS.3) Add in order: First, $-1.5 + 3.2 = 1.7$. Then, $1.7 + (-0.8) = 1.7 - 0.8 = 0.9$ points.
- 9) **Choice C is correct.** (7.NS.2d) Divide $19 \div 25 = 0.76$. Since $25 = 5^2$, this is a terminating decimal. Multiply numerator and denominator by 4: $\frac{19 \times 4}{25 \times 4} = \frac{76}{100} = 0.76$.
- 10) **Choice A is correct.** (7.NS.1-7.NS.3) Average = $\frac{9.2+8.8+9.5+9.1+8.9}{5} = \frac{45.5}{5} = 9.1$ seconds.
- 11) **Choice A is correct.** (7.NS.1-7.NS.3) $21,000 > 3,500$, so 2.1×10^4 is larger.
- 12) **Choice B is correct.** (7.EE.3-7.EE.4) Subtract 1: $\frac{x}{6} = 2$. Multiply by 6: $x = 12$.
- 13) **Choice D is correct.** (7.SP.5-7.SP.8) Even faces are: two 2's and one 8 = three even faces. Total is six faces, so $P(\text{even}) = \frac{3}{6} = \frac{1}{2}$.
- 14) **Choice B is correct.** (7.NS.2) $-\frac{3}{5} \times (-2.5) = \frac{3}{5} \times 2.5 = 0.6 \times 2.5 = 1.5$. Negative times negative is positive.
- 15) **Choice B is correct.** (7.EE.1-7.EE.2) $30(1 - 0.1)$ clearly displays the factored structure: the scale factor $(1 - 0.1) = 0.9$ multiplied by the original price. This factored form emphasizes why a 10% discount leaves 90%.
- 16) **Choice D is correct.** (7.RP.3) Commission = commission rate $\times$ base price = $0.03 \times 22000 = \$660$. The documentation fee does not affect the commission base.
- 17) **Choice C is correct.** (7.RP.1-7.RP.3) Scale: 1 cm = 50 km. For 6 cm: $6 \times 50 = 300$ km.
- 18) **Choice B is correct.** (7.G.4-7.G.6) Rectangle: $6 \times 4 = 24 \text{ m}^2$. Triangle: $\frac{1}{2} \times 6 \times 3 = 9 \text{ m}^2$. Total: $24 + 9 = 33 \text{ m}^2$. The student forgot to use the triangle area formula $\frac{1}{2} \times b \times h$.
- 19) **The correct answer is A,D.** (7.NS.1-7.NS.3) Statement A is true: the opposite of -5 is 5 (positive). Statement D is true: -5 and 5 are each 5 units from zero. Statement B is false because opposites have the same absolute value. Statement C is false: $5 + (-5) = 0$, not 10.
- 20) **The correct answer is \$1150.** (7.RP.3) Balance: $800 + 200 - 150 + 300 = \1150 .
- 21) **The correct answer is 30.** (7.RP.3) Months = $\$1,200 \div \$40 = 30$ months.
- 22) **The correct answer is 20.** (7.EE.1-7.EE.2) The expression simplifies to $10m - 10$. With $m = 3$, the value is $30 - 10 = 20$.
- 23) **Choice C is correct.** (7.G.4-7.G.6) Side of square = $20/4 = 5$ cm. Base area = $5^2 = 25 \text{ cm}^2$. Volume = $25 \times 8 = 200 \text{ cm}^3$.
- 24) **Choice C is correct.** (7.G.1-7.G.5) The sum of the two smaller sides equals (not exceeds) the largest side, violating the strict Triangle Inequality.
- 25) **Choice A is correct.** (7.G.1-7.G.5) All three inequalities must hold: $13 > 5$ ✓, $12 > 6$ ✓, $11 > 7$ ✓. The Triangle Inequality is satisfied, so this triangle can exist.
- 26) **Choice B is correct.** (7.G.4-7.G.6) An arc is a portion of the circumference (curved). A chord is a straight line segment with endpoints on the circle. They are different.
- 27) **Choice A is correct.** (7.SP.5-7.SP.8) $\frac{1}{3} = 0.\overline{3} \approx 0.33$ when rounded to the nearest hundredth.
- 28) **Choice B is correct.** (7.SP.1-7.SP.4) $\frac{45}{120} = \frac{x}{840}$. Reduce to $\frac{3}{8} = \frac{x}{840} \Rightarrow x = 315$.
- 29) **The correct answer is 9.** (7.EE.1-7.EE.2) The expression simplifies to $6q - 9$. With $q = 3$, the value is $18 - 9 = 9$.



Hi, Calm Solver!

◇ This wide-ranging book gave you eight serious Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. A calm mind can see choices more clearly. That matters in Grade 7, where one problem may have several possible entry points. ◇

★ **Remember this:** You practiced building calm by doing full tests. Each completed page is rehearsal for staying steady when the real test feels serious. ★

Calm-Test Moves

- **Pause:** Give your brain one quiet second.
- **Choose:** Pick the first useful step.
- **Continue:** Do not demand perfection immediately.
- **Check:** Use review time wisely.

Grade 7 test-day tip: If you feel rushed, slow your reading for one sentence. Clear reading saves time.

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Calm-Test Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **8** full-length Math practice tests and **2** online tests to help Grade 7 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.



THIS BOOK INCLUDES:

8 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations



MORE PRACTICE. GREATER RESULTS.

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

WHAT YOU'LL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Proportions
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Percents & Decimals
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ Algebraic Thinking
- ✓ And More!



2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

Don't lose it—your extra practice and success start here!



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BRIGHTLY