

# 10

# Nevada

## Smarter Balanced

GRADE  
**6**  
MATH

# PRACTICE TESTS

**Standards-Aligned Review**  
**Mixed Practice & Answer Key**



### 10 PRINTED TESTS

Realistic practice to build confidence and mastery



### 2 ONLINE TESTS

Extra practice for continued success



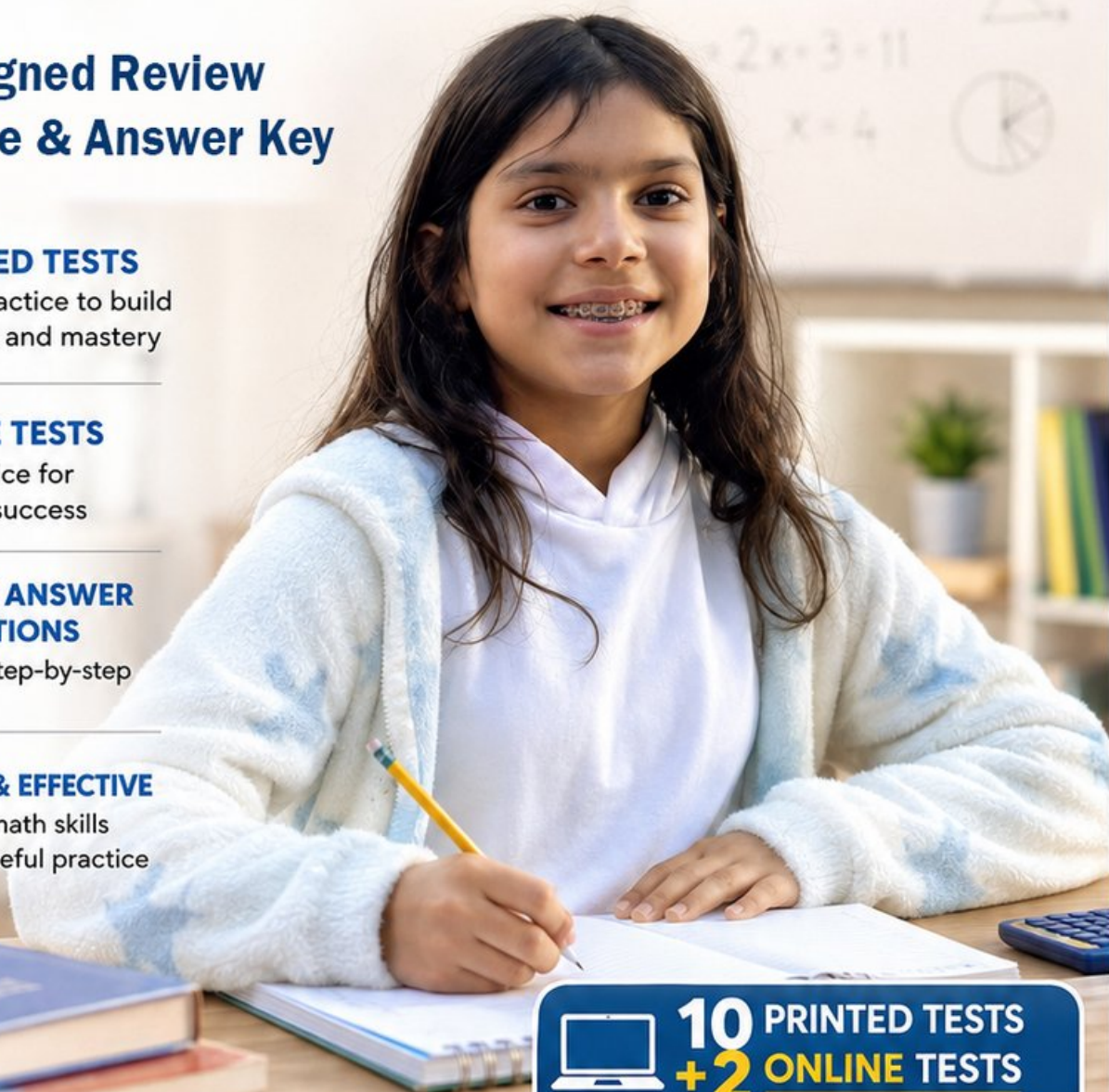
### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



**10** PRINTED TESTS  
**+ 2** ONLINE TESTS

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

**PRACTICE • REVIEW • SUCCEED**

# 10 Nevada Smarter Balanced Grade 6 Math Practice Tests

*Standards-Aligned Sharp Desert Focus for Smarter Balanced Assessment Consortium*



Ten complete 40-question Grade 6 practice rounds for Smarter Balanced, with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Nevada Math Explorer!

Ten steady rounds on a Silver State review run

This book gives you ten full Grade 6 practice tests for Smarter Balanced. Each round uses desert valleys, mountain lines, and bold math choices as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

## Your Nevada Practice Promise

Make the important information stand out before solving. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

## How to Use This Book

A ten-session routine for sharp desert focus

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Nevada review rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Ten Smarter Balanced tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final Nevada round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

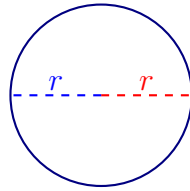
The tests are mixed on purpose. Sharp desert focus means recognizing the skill even when the next question changes topic.



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For more practice  
& answers

# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	29
★ Practice Test 3	_____	46
★ Practice Test 4	_____	63
★ Practice Test 5	_____	79
★ Practice Test 6	_____	94
★ Practice Test 7	_____	112
★ Practice Test 8	_____	126
★ Practice Test 9	_____	139
★ Practice Test 10	_____	155
<b>Practice Test Answer Keys</b>	_____	<b>171</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>177</b>



1) If  $r = 2.5$  cm, what is  $d$ ?

If a circle has a radius of 2.5 cm, what is the diameter?

- A. 1.25 cm                       C. 5 cm  
 B. 2.5 cm                         D. 6.25 cm

2) Jenny's salary increases from \$40,000 to \$44,000. What is the percent increase?

- A. 8%                                 C. 12%  
 B. 15%                               D. 10%

3) Paint coverage: One can of paint covers  $\frac{2}{3}$  of a wall. How much of a can is needed to paint exactly  $\frac{1}{2}$  of that wall?

- A.  $\frac{1}{4}$  can                               C.  $1\frac{1}{4}$  cans  
 B.  $\frac{3}{4}$  can                               D.  $1\frac{1}{2}$  cans





7) Two classes compared their test scores using a double-bar graph. Class A had a median of 82 and a range of 35 (lowest 60, highest 95). Class B had a median of 78 and a range of 28 (lowest 62, highest 90).

Which statement is TRUE based on the statistics?

- A. Class A always scored higher than Class B
- B. Class A's scores were more consistent (less spread)
- C. Class A's typical performance is better than Class B
- D. Class B has more students than Class A



Wheat Peach

8)

The bar model shows a ratio of wheat to peach of 3 : 1. If the total bar is 20 units, how many units is the wheat section?

- A. 5 units
- B. 3 units
- C. 10 units
- D. 15 units

9) A student is shown this dot diagram with 3 blue dots and 5 yellow dots.



Blue and Yellow

The student says: "There are 3 blue dots out of 5 total." Why is this statement incorrect?

- A. There are 3 blue and 5 yellow, so the total is 8, not 5.
- B. The ratio of blue to yellow is 5 : 3, not 3 : 5.
- C. Blue dots should be counted after yellow dots.
- D. The statement is correct.

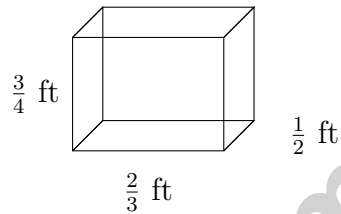
1) A map has a scale of 1 inch = 10 miles. If two cities are 3.5 inches apart on the map, how far apart are they in reality?

A. 30 miles

C. 35 miles

B. 31.5 miles

D. 40 miles



2)

A rectangular prism has dimensions  $\frac{1}{2}$  ft,  $\frac{3}{4}$  ft, and  $\frac{2}{3}$  ft. What is its volume in cubic feet?

A.  $\frac{1}{4}$  ft<sup>3</sup>

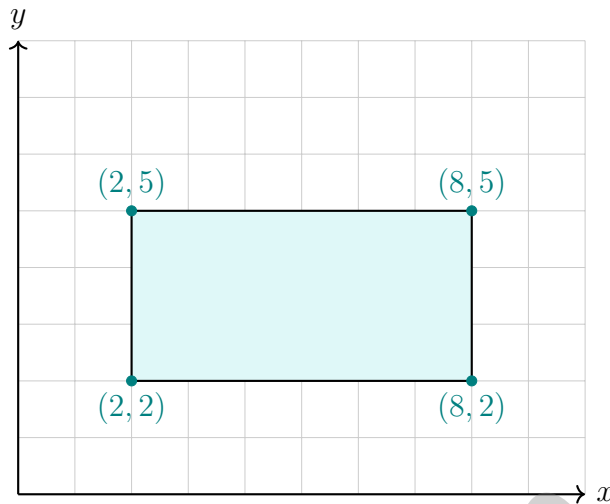
C.  $\frac{3}{4}$  ft<sup>3</sup>

B.  $\frac{1}{2}$  ft<sup>3</sup>

D. 1 ft<sup>3</sup>



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3)

What is the perimeter of this rectangle?

- A. 18 units
- B. 16 units
- C. 12 units
- D. 22 units

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1) Which term has a coefficient of  $\frac{2}{3}$ ?

A.  $\frac{2}{3}$

B.  $\frac{2}{3}r$

C.  $2r + 3$

D.  $r + \frac{2}{3}$

2) On a spelling test, 36 out of 40 students passed. What percent passed?

A. 36%

B. 80%

C. 90%

D. 95%

3) Using the conversion factor 1 yard = 3 feet, how many feet are in 7 yards?

A. 10 feet

B. 14 feet

C. 21 feet

D. 28 feet

4) Jordan receives \$120 monthly as income. He spends \$45 on lunch, \$30 on entertainment, and \$20 on transportation. How much does he have left?

A. \$20

B. \$25

C. \$35

D. \$40

5) A table shows the number of hours worked ( $h$ ) and the amount of pay earned ( $p$ , in dollars).

Hours ( $h$ )	1	2	3	4
Pay ( $p$ )	12	24	36	48

Which option gives both the correct unit rate and the correct equation for the relationship?

A. Unit rate: \$12 per hour; equation:  $p = 12h$

C. Unit rate: \$12 per hour; equation:  $h = 12p$

B. Unit rate: \$24 per hour; equation:  $p = 24h$

D. The relationship is not proportional



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- 6) Marcus solved  $4,368 \div 28$  using long division and wrote 156 with no remainder. Which statement verifies his result?
- A.  $28 \times 156 = 4,368$  exactly, so the answer is correct.
- B.  $28 \times 156 = 4,268$ , so the quotient is too high.
- C.  $28 \times 156 = 4,568$ , so the quotient is too low.
- D. The remainder must be 28.
- 7) A pencil is 0.15 meters long. A pen is 0.08 meters long. How much longer is the pencil?
- A. 0.07 meters
- B. 0.23 meters
- C. 0.07 cm
- D. 1.87 meters
- 8) Bus Route A stops every 8 minutes. Bus Route B stops every 12 minutes. If both buses just left the station, when will they both be at the station again at the same time?
- A. In 8 minutes
- B. In 12 minutes
- C. In 20 minutes
- D. In 24 minutes
- 9) The factor tree below shows the GCF of two numbers. Use it to write the factored form of the sum.

$$\text{GCF} = 2 \times 3$$

$$2 \quad 3$$

$$\text{First number} = 2 \times 3 \times 5 = 30 \quad \text{Second number} = 3 \times 3 \times 4 = 36$$

- A.  $6(5 + 4)$
- B.  $6(5 \times 4)$
- C.  $5(6 + 24)$
- D.  $(5 + 4)(2 + 3)$



## Nevada Smarter Balanced Practice Test Answer Keys

**How to use this section with a Grade 6 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.RP.A.3c)** Diameter  $d = 2r = 2 \times 2.5 = 5$  cm.
- 2) **Choice D is correct.** **(6.EE.B.8)** Increase is  $\$44,000 - \$40,000 = \$4,000$ . Percent increase is  $\frac{4000}{40000} = 0.10 = 10\%$ .
- 3) **Choice B is correct.** **(6.SP.A.2)** If 1 can covers  $\frac{2}{3}$  wall, then to cover  $\frac{1}{2}$  wall we need  $\frac{1}{2} \div \frac{2}{3} = \frac{1}{2} \times \frac{3}{2} = \frac{3}{4}$  can.
- 4) **Choice D is correct.** **(6.NS.B.3)** The ratio is  $6 : 4$  or  $3 : 2$ . When cookies are 18 (multiply by 3), brownies are  $4 \times 3 = 12$ .
- 5) **Choice C is correct.** **(6.NS.A.1)** Unit rate:  $6 \div \frac{1}{2} = 6 \times 2 = 12$  dollars per kilogram.
- 6) **Choice D is correct.** **(6.RP.A.3)** The pattern shows  $1'' = 9$  ft. So  $4'' = 4 \times 9 = 36$  ft.
- 7) **Choice C is correct.** **(6.NS.C.6c)** Class A has a higher median (82 vs. 78), indicating better typical performance. Class A actually has MORE spread (range 35 vs. 28), so B is false. We cannot conclude  $A > B$  in every score or class size from this data.
- 8) **Choice D is correct.** **(6.EE.C.9)** The whole bar has  $3 + 1 = 4$  equal parts. Each part is  $20 \div 4 = 5$  units, and wheat is 3 parts:  $3 \times 5 = 15$  units.
- 9) **Choice A is correct.** **(6.NS.B.3)** The student used the yellow count as the total. There are 3 blue and 5 yellow dots, so the total is  $3 + 5 = 8$  and the part-to-whole ratio is  $3 : 8$ .
- 10) **The correct answer is (5, 1).** **(6.EE.A.2a)** Translate right: add 3 to the  $x$ -coordinate:  $2 + 3 = 5$ . Translate down: subtract 2 from the  $y$ -coordinate:  $3 - 2 = 1$ . So  $E' = (5, 1)$ .
- 11) **Choice C is correct.** **(6.EE.A.2b)** Divide pages by time:  $45 \div \frac{3}{4} = 45 \times \frac{4}{3} = \frac{180}{3} = 60$  pages per hour.
- 12) **Choice B is correct.** **(6.EE.A.2c)** From the double number line, 3 miles in 10 minutes gives  $3 \div 10 = 0.3$  miles per minute.
- 13) **Choice B is correct.** **(6.SP.B.5)** All these points lie on a straight line passing through  $(0, 0)$  because the ratio is constant (12 dollars per hour). Proportional relationships always graph as straight lines through the origin.
- 14) **Choice A is correct.** **(6.NS.B.4)**  $25\% = \frac{25}{100}$ . Simplify by dividing numerator and denominator by 25:  $\frac{25 \div 25}{100 \div 25} = \frac{1}{4}$ .
- 15) **Choice A is correct.** **(6.NS.B.3)** Divide:  $64 \div 12 = 5\frac{4}{12} = 5\frac{1}{3}$  feet.
- 16) **The correct answer is 20.** **(6.EE.A.1)** Total sum =  $25 \times 4 = 100$ . Sum of three =  $20 + 28 + 32 = 80$ . Fourth =  $100 - 80 = 20$ .
- 17) **Choice A is correct.** **(6.EE.B.5)** Alex:  $\frac{\$100}{\$500} = 0.20 = 20\%$ . Jordan:  $\frac{\$75}{\$400} = 0.1875 = 18.75\%$ . Alex saves a higher percentage.
- 18) **Choice A is correct.** **(6.G.A.1)** The proportional relationship between distance and time is  $d = 15t$ . When  $t = 0$ ,  $d = 0$ , indicating the line passes through the origin. Options B and D include constants (non-proportional), and option C reverses the variables.
- 19) **Choice D is correct.** **(6.G.A.2)** Comparing the percentages: 45%, 30%, 20%, and 5%, the smallest is 5% for Other.
- 20) **Choice A is correct.** **(6.G.A.3)**  $8,190 \div 26 = 315$ . Check:  $26 \times 315 = 8,190$ .
- 21) **Choice A is correct.** **(6.G.A.1)** Multiply:  $63 \times 9 = 567$ . With  $1 + 1 = 2$  decimal places total, the answer is 5.67.
- 22) **The correct answer is A and E are correct. The area of a rectangle is length  $\times$  width. The area of a triangle is  $\frac{1}{2} \times$  base  $\times$  height.** **(6.NS.B.4)** A is correct: the area formula for a rectangle is length  $\times$  width. E is correct: the area of a triangle is  $\frac{1}{2} \times$  base  $\times$  height. B uses the wrong operation, C reverses the triangle relationship, and D incorrectly says decomposition is impossible.
- 23) **Choice B is correct.** **(6.NS.C.8)** Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24. Factors of 60: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60. Common factors: 1, 2, 3, 4, 6, 12. GCF is 12.
- 24) **Choice D is correct.** **(6.SP.B.5c)** A, B, and C all peel out different-but-valid common factors (8, 4, 2) yet land on  $40 + 24$  every time—that is flexibility the distributive property gives you.
- 25) **Choice C is correct.** **(6.SP.B.4)** Zero is neither positive nor negative; it is the reference point. Statements A, B, and D are all true, but C is false because 0 is not classified as positive or negative.
- 26) **Choice A is correct.** **(6.RP.A.3)** Distance from zero is always non-negative. The absolute value  $|-9| = 9$  units.



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## Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!  
★

### Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

**Coach's tip:** the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Coach

# PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen problem-solving abilities, and reach their full potential.

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

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ **CONFIDENCE TODAY.  
SUCCESS TOMORROW!**

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Deepen Understanding

Reinforce key math concepts aligned with standards.



### Test Confidence

Get familiar with test formats and improve accuracy.



### Achieve Success

Build confidence and perform your best on test day.

## TOPICS COVERED

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



## 2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

## MORE PRACTICE. GREATER RESULTS.

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



10 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS