

# 9

# Nevada

## Smarter Balanced

GRADE

# 6

MATH

# PRACTICE TESTS

Standards-Aligned Review  
Mixed Practice & Answer Key



### 9 PRINTED TESTS

Realistic practice to build confidence and mastery



### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



### BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



**9 PRINTED TESTS**  
**+2 ONLINE TESTS**

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

**PRACTICE TODAY.**  
**SUCCEED TOMORROW.**



PRACTICE



REVIEW



SUCCEED

# 9 Nevada Smarter Balanced Grade 6 Math Practice Tests

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

$436 + 289$   $A = 24$

1 2 3 4 5 6 7 8 9

$7 \times 8$   $\frac{5}{6}$

9

complete Nevada practice rounds

Nine complete 40-question Grade 6 practice rounds for Smarter Balanced, built for desert-sharp review 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!

Nine focused rounds using desert-sharp review

This book gives you nine full Grade 6 practice tests for Smarter Balanced. Each round uses desert roads, bright lights, and careful estimation 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

Use sharp focus: identify the target, make the model, and check before choosing.

Read

Plan

Check

# How to Use This Book

A nine-session routine for desert-sharp review

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

**Nevada review rhythm:** Practice a round, cool down with corrections, then return with one stronger strategy.



## What Is Inside?

Nine Smarter Balanced tests, 360 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation 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	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Desert-sharp review means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



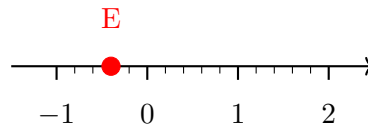
Scan me!  
For more practice  
& answers

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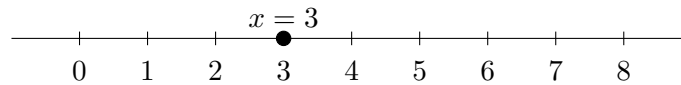


- 4) The number line below has tick marks at fifths. What is the coordinate of point E?



- A.  $-\frac{3}{5}$ 
 C.  $-\frac{1}{5}$   
 B.  $\frac{1}{5}$ 
 D.  $-\frac{2}{5}$

- 5)



Which number is less than  $x$ ?

- A. 4
  C. 1  
 B. 5
  D. 6
- 6) A graph shows distance (in kilometers) versus time (in hours). The line passes through  $(0, 0)$  and  $(2, 120)$ . What is the speed in kilometers per hour?
- A. 60 km/h
  C. 2 km/h  
 B. 120 km/h
  D. 240 km/h
- 7) A gardener is arranging plants. They have 35 tomato plants and 49 pepper plants. They want to arrange them in rows with the same number of each type of plant per row, using all plants. How many rows can they make?
- A. 5 rows
  C. 35 rows  
 B. 49 rows
  D. 7 rows



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8) What is the GCF of 18 and 24?

A. 2

C. 6

B. 3

D. 12

9) Which integer is the opposite of  $-9$ ?

A. 0

C.  $-9$

B. 18

D. 9

10) A city is at an elevation of 2050 feet above sea level. Its opposite elevation would be:

A.  $-2050$  feet

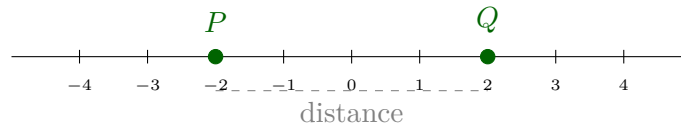
C. 2050 feet

B.  $|2050|$  feet

D. 4100 feet

11) A school's budget is \$100000. The principal allocates 25% of the budget to technology. How many dollars are allocated to technology?





1)

The distance between  $P$  and  $Q$  is:

- A. 2 units                       C. 4 units  
 B. 0 units                       D. -4 units

2) A number  $n$  is decreased by 12 and then the result is doubled. Which expression shows the final result?

- A.  $2n - 12$                        C.  $n - 2(12)$   
 B.  $2n(12)$                        D.  $2(n - 12)$

3) Evaluate:  $\frac{-72}{-9}$

- A. 8                                       C. -63  
 B. -8                                       D. 63

4) The perimeter of a square is  $P = 4s$ . Find  $P$  when  $s = 5$ .

- A. 9                                       C. 25  
 B. 20                                       D. 40

5) Find the LCM of 6 and 9 using prime factorization.

- A. 18                                       C. 36  
 B. 27                                       D. 54



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6) Factor  $20 + 16$  using the GCF.

A.  $2(10 + 8)$

B.  $4(5 + 4)$

C.  $5(4 + 3.2)$

D.  $8(2.5 + 2)$

7) If  $|x| = 9$ , which value(s) could  $x$  be?

A. 9 only

B.  $-9$  only

C. Undefined

D. Both 9 and  $-9$

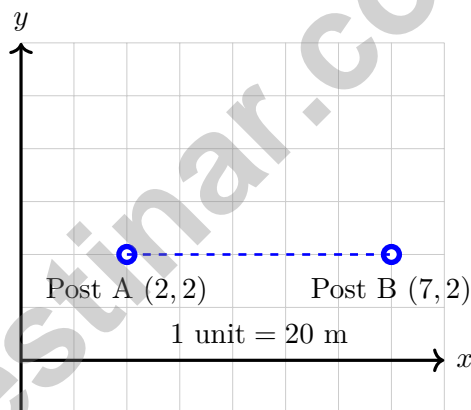
8) What are the coordinates of a point on the positive  $x$ -axis?

A.  $(0, 5)$

B.  $(0, -2)$

C.  $(-3, 0)$

D.  $(4, 0)$



9)

Two fence posts are located at  $(2, 2)$  and  $(7, 2)$  on a map. If each unit equals 20 meters, what is the actual distance between the posts?

A. 80 m

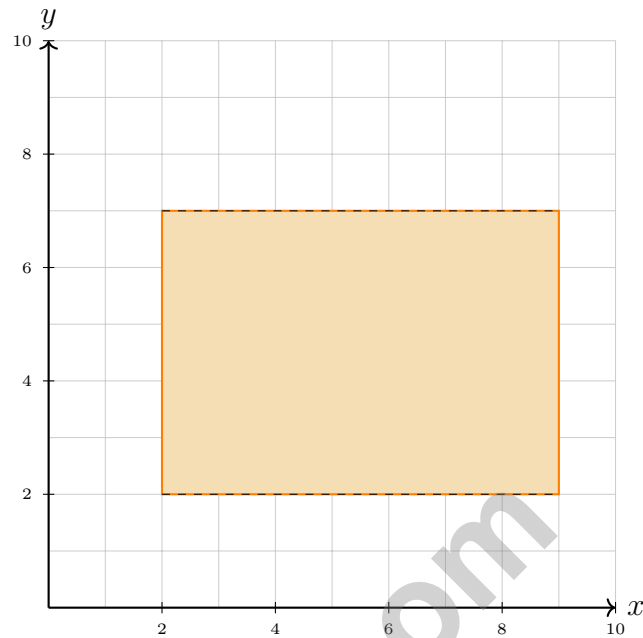
B. 140 m

C. 120 m

D. 100 m







4)

A rectangle on a map has vertices at  $(2, 2)$ ,  $(9, 2)$ ,  $(9, 7)$ , and  $(2, 7)$ , representing a city block. If each unit represents 100 meters, what is the area in square meters?

- A. 35,000 sq. m                       C. 3,500,000 sq. m  
 B. 350,000 sq. m                       D. 35,000,000 sq. m

5) A student guesses randomly on a 4-choice multiple choice question. What is the probability that the student's answer is correct? Express your answer as a decimal.



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**Nevada Smarter Balanced Practice Test Answer Keys**

**How to use this Nevada Smarter Balanced answer section with a Grade 6 student:**

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to desert-sharp review
3. rework the problem before reading the full explanation, using this reminder:  
Use sharp focus: identify the target, make the model, and check before choosing.

**A calm Nevada correction routine turns every missed item into useful practice. Practice a round, cool down with corrections, then return with one stronger strategy.**



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## Nevada Practice Test Answers and Explanations

Review the nine printed Smarter Balanced tests with sharp, calm, and ready for the next stretch habits.

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.RP.A.1)**  $IQR = Q_3 - Q_1 = 7.5 - 2.5 = 5$ .
- 2) **Choice B is correct.** **(6.RP.A.3)** To find the actual length from a drawing length, multiply by the scale factor: 3 inches  $\times$  4 feet per inch = 12 feet. The student divided ( $3 \div 4 = \frac{3}{4}$ ) instead of multiplying.
- 3) **Choice A is correct.** **(6.NS.B.2)**  $8,350 \div 40 = 208$  remainder 30. The remainder 30 out of 40 is  $\frac{30}{40} = \frac{3}{4}$ , so the mixed number is  $208\frac{3}{4}$ .
- 4) **Choice D is correct.** **(6.NS.C.6c)** Point E is two fifth-marks to the left of 0, which is  $-\frac{2}{5}$  or  $-0.4$ .
- 5) **Choice C is correct.** **(6.NS.C.7d)**  $x = 3$ . Since  $1 < 3$ , the number 1 is less than  $x$ .
- 6) **Choice A is correct.** **(6.NS.C.7d)**  $Speed = \frac{distance}{time} = \frac{120 \text{ km}}{2 \text{ h}} = 60 \text{ km/h}$ . The line passes through the origin, confirming a proportional relationship.
- 7) **Choice D is correct.** **(6.NS.B.4)** This is a GCF problem. The GCF of 35 and 49 is 7. So they can make 7 rows with 5 tomato and 7 pepper plants per row.
- 8) **Choice C is correct.** **(6.NS.B.4)** Factors of 18: 1, 2, 3, 6, 9, 18. Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24. Common factors: 1, 2, 3, 6. GCF is 6.
- 9) **Choice D is correct.** **(6.NS.C.5)** The opposite of a number is the same distance from zero but on the other side. The opposite of  $-9$  is 9.
- 10) **Choice A is correct.** **(6.NS.C.7c)** The opposite of 2050 is  $-2050$ , representing 2050 feet below the reference point.
- 11) **The correct answer is 25000.** **(6.NS.C.7d)**  $25\% \text{ of } \$100000 = 0.25 \times 100000 = \$25000$ .
- 12) **Choice A is correct.** **(6.NS.C.8)** Only the point (3, 1) has both positive  $x$  and positive  $y$  coordinates, placing it in Quadrant I.
- 13) **The correct answer is 1600.** **(6.EE.C.9)** Total:  $\$900 + \$150 + \$350 + \$200 = \$1600$ .
- 14) **Choice A is correct.** **(6.NS.C.8)** Since  $|x - 8| = 5$ , then  $x = 8 - 5 = 3$  or  $x = 8 + 5 = 13$ .
- 15) **Choice D is correct.** **(6.EE.A.3)** Combine like terms:  $(9 - 4 + 1)c = 6c$ .
- 16) **Choice D is correct.** **(6.EE.B.8)** "Older than 18" means strictly greater than:  $a > 18$ .
- 17) **Choice B is correct.** **(6.EE.B.8)**  $x < -5$  excludes  $-5$  (open circle) and shows all numbers less than  $-5$  (arrow points left toward more negative values).
- 18) **Choice C is correct.** **(6.EE.C.9)** In the equation  $s = 3.5t$ , the coefficient 3.5 is the constant amount (speed) that tells how many miles are traveled for each hour of time.
- 19) **Choice C is correct.** **(6.SP.A.2)** Question A asks about one dog (one answer). Question B asks about multiple dogs, whose weights vary, requiring data collection—making it statistical.
- 20) **Choice B is correct.** **(6.SP.B.5c)**  $IQR = Q_3 - Q_1 = 88 - 72 = 16$ . The IQR tells us the spread of the middle half of the scores.
- 21) **The correct answer is B: 2 kg = 2000 g; C: 0.5 miles = 2640 feet.** **(6.RP.A.3d)** A is incorrect:  $10 \times 8 = 80 \text{ fl oz}$ , not 60. B is correct:  $2 \times 1000 = 2000 \text{ grams}$ . C is correct:  $0.5 \times 5280 = 2640 \text{ feet}$ . D is incorrect:  $1.5 \times 1000 = 1500 \text{ mL}$ , not 150. E is incorrect:  $8 \times 2 = 16 \text{ pints}$ , not 32.
- 22) **Choice C is correct.** **(6.NS.A.1)** 40% of 250 is  $0.40 \times 250 = 100$  students.
- 23) **Choice C is correct.** **(6.NS.B.3)** Opposite integers sum to zero:  $-6 + 6 = 0$ . The opposite of  $-6$  is 6.
- 24) **Choice B is correct.** **(6.NS.B.3)** Starting at  $-40$  and ascending (adding) 15:  $-40 + 15 = -25$  feet below surface.
- 25) **Choice B is correct.** **(6.EE.A.2a)** "The quotient of 14 and  $t$ " is  $\frac{14}{t}$ . "Decreased by 3" means subtract 3:  $\frac{14}{t} - 3$ .
- 26) **Choice B is correct.** **(6.EE.A.2b)** The coefficient of  $-5y$  is  $-5$ . The coefficient of  $z$  (which is  $1z$ ) is 1. Sum:  $-5 + 1 = -4$ .
- 27) **Choice B is correct.** **(6.EE.A.2c)** Substitute:  $5(2) + 2(3) - 3(1) = 10 + 6 - 3 = 13$ .



Scan me!  
For more practice  
& answers

## Hi, Math Champion!

◇ You trained hard! 9 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.

This **Grade 6 Math Practice Tests** book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on any test.

With 9 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop 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

★ PRACTICE TODAY.  
SUCCEED 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.



### Deeper 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.



9 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS