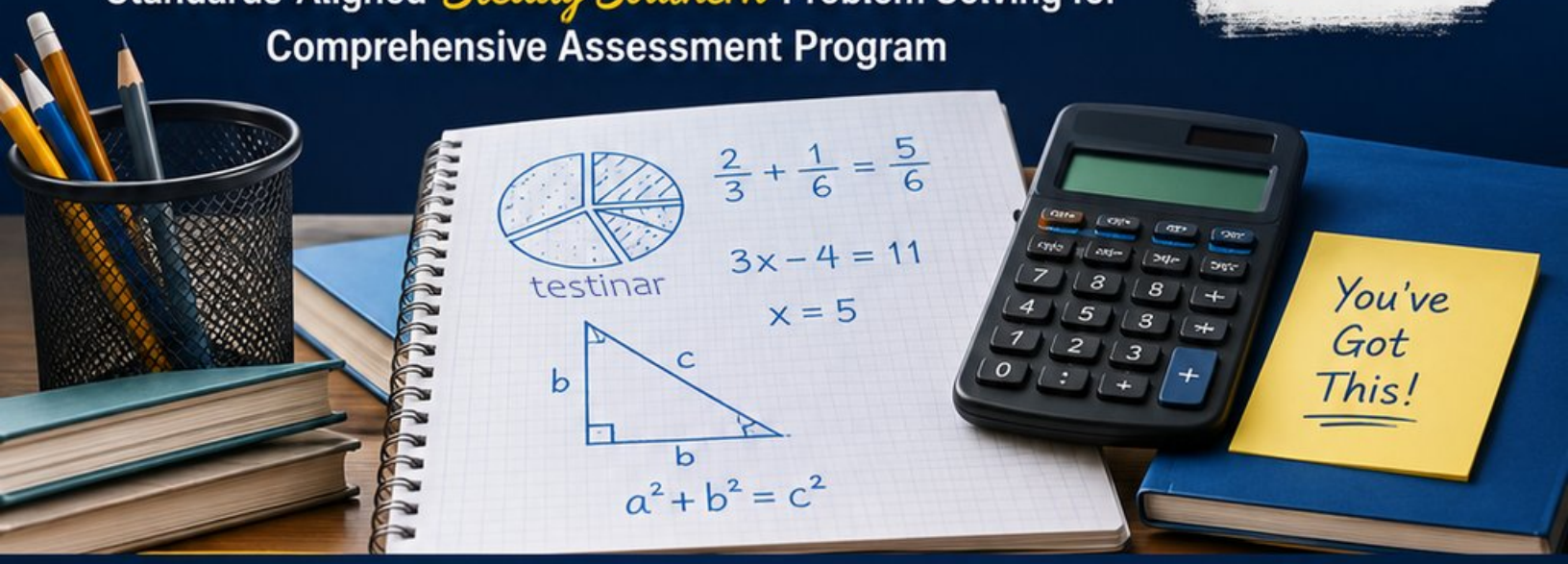
8 Nevada Smarter Balanced

8 PRINTED TESTS + 2 ONLINE TESTS

GRADE 6 MATH PRACTICE TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program



BUILT FOR ACAP SUCCESS

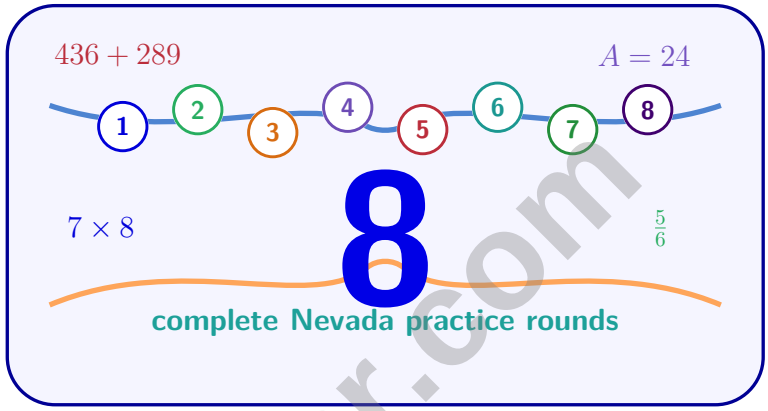
REALISTIC TESTS & QUESTION TYPES

STRENGTHEN MATH SKILLS

REVIEW, PRACTICE, AND IMPROVE

8 Nevada Smarter Balanced Grade 6 Math Practice Tests

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



Eight 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!

Eight focused rounds using desert-sharp review

This book gives you eight 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.

How to Use This Book

A eight-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?

Eight Smarter Balanced tests, 320 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 7–8	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.

Table of Contents

1) Which student correctly evaluated $|-7|$?

☐ A. Jordan: $|-7| = -7$ because it is negative
☐ B. Sam: $|-7| = 14$ because you add the digits
☐ C. Alex: $|-7| = 0$ because opposites cancel
☐ D. Maya: $|-7| = 7$ because absolute value is the distance from zero

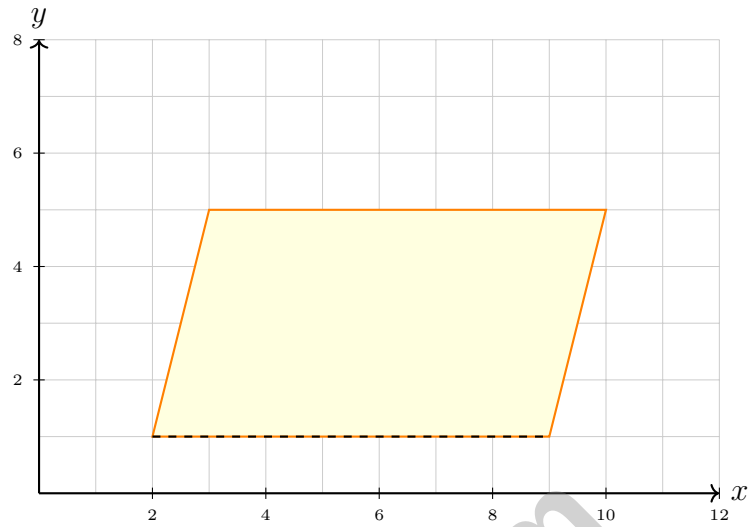
2) A trapezoid has bases of 7 m and 9 m with a height of 4 m. What is its area?

☐ A. 20 m^2
☐ B. 32 m^2
☐ C. 36 m^2
☐ D. 64 m^2

3) A small box is 7 cm long, 3 cm wide, and 2 cm tall. What is its volume?

☐ A. 12 cm^3
☐ B. 21 cm^3
☐ C. 28 cm^3
☐ D. 42 cm^3

4)



A parallelogram has vertices at $(2, 1)$, $(9, 1)$, $(10, 5)$, and $(3, 5)$. If the base is 7 units and the height is 4 units, what is the area?

☐ A. 20 square units
☐ B. 24 square units
☐ C. 28 square units
☐ D. 32 square units

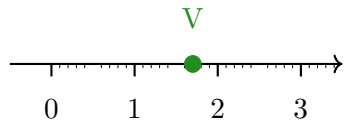
5) A square pyramid has a base with side length 8 cm. The slant height is 6 cm. Find the total surface area including the base.

☐ A. 64 cm^2
☐ B. 96 cm^2
☐ C. 160 cm^2
☐ D. 224 cm^2

6) What is the GCF of 26 and 39?

☐ A. 13
☐ B. 26
☐ C. 39
☐ D. 2

7) The number line below shows tick marks at tenths. Which decimal is at point V?

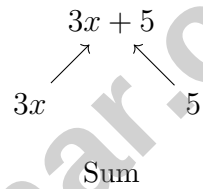


☐ A. 1.5
☐ B. 1.6
☐ C. 1.7
☐ D. 1.8

8) A student plotted two points on a number line. The distance between them is 13 units. One point is at -4. Which could be the other point to the left of -4?

☐ A. -17
☐ B. -9
☐ C. 9
☐ D. 17

9)



This tree represents which phrase?

☐ A. The product of 3, x, and 5
☐ B. Three times the sum of x and 5
☐ C. The sum of $3x$ and 5
☐ D. Five more than three

10) What is the least integer that is at least 25?

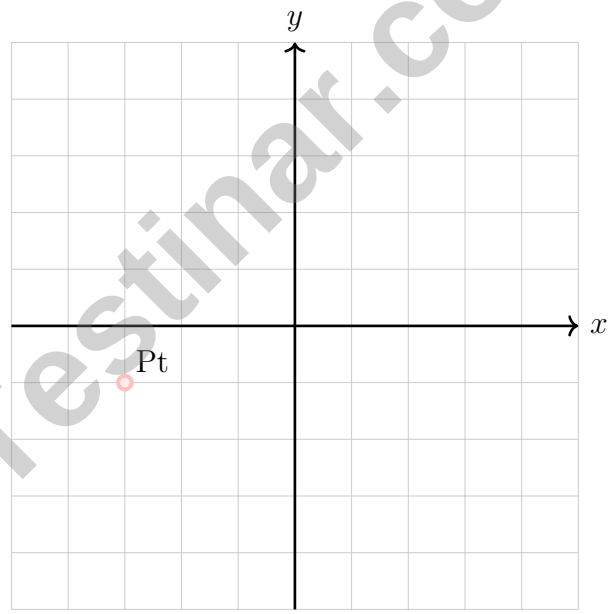
1) A student is analyzing the relationship between television screen size (s, in inches) and price (p, in dollars). The data shows: 32 inches for \$200, 55 inches for \$350, and 65 inches for \$420. Is the relationship proportional?

☐ A. Yes; larger sizes cost more
☐ B. Yes; the ratio p/s is constant
☐ C. No; the ratio p/s is not constant
☐ D. Cannot determine without a graph

2) A tech company surveyed 560 employees about department. The circle graph shows $\frac{7}{16}$ work in engineering. How many work in engineering?

☐ A. 220
☐ B. 245
☐ C. 280
☐ D. 315

3)



If a point at $(-3, -1)$ is reflected over the x-axis, which of the following is the image?

☐ A. $(-3, 1)$
☐ B. $(-3, -1)$
☐ C. $(3, 1)$
☐ D. $(3, -1)$

4) Which data set would have the largest mean?

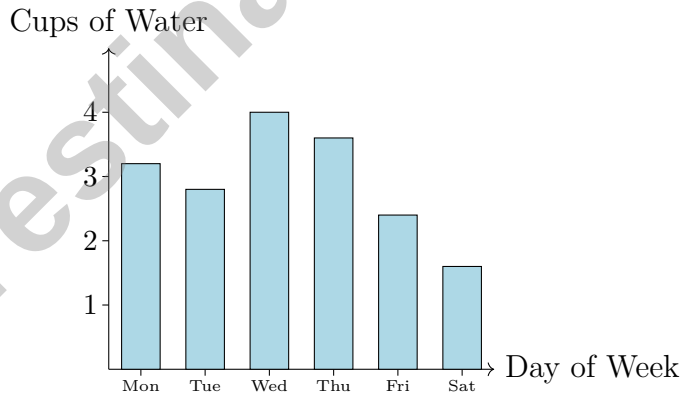
☐ A. $1, 2, 3, 4, 5$
☐ B. $3, 4, 5, 6, 7$
☐ C. $2, 3, 4, 5, 6$
☐ D. $1, 2, 3, 4, 50$

5) A dataset's five-number summary is: min $= 9$, $Q_1 = 14$, median $= 19$, $Q_3 = 26$, max $= 35$. Calculate the upper whisker length (from Q_3 to max).

6) A dataset has values: $112, 115, 118, 121, 124, 125$. Using a 2-digit stem (like 11 and 12), how many leaves are in stem 12?

☐ A. 1
☐ B. 2
☐ C. 3
☐ D. 4

7)



This bar graph shows how many cups of water a student drank each day. On which day did the student drink the MOST water?

☐ A. Monday
☐ B. Friday
☐ C. Thursday
☐ D. Wednesday

1) Compute: $\frac{7}{8} \div \frac{1}{4}$

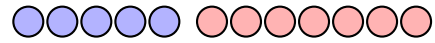
☐ A. $\frac{7}{32}$
☐ B. $\frac{7}{16}$
☐ C. $3\frac{1}{2}$
☐ D. $\frac{11}{8}$

2) A street on a map measures 6 inches. The map's scale is 1 inch = 10 miles. How many miles long is the actual street?

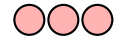
3) A school has 6,480 students who need to be divided into 40 equal groups for field trips. How many students per group?

4) Using zero pairs (a red chip and a blue chip neutralize each other), simplify: 5 blue chips + 7 red chips.

5 blue + 7 red chips

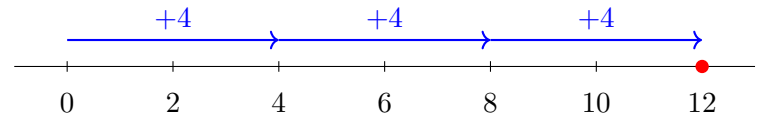


After pairing & removing


remain

☐ A. −5
☐ B. −2
☐ C. 2
☐ D. 5

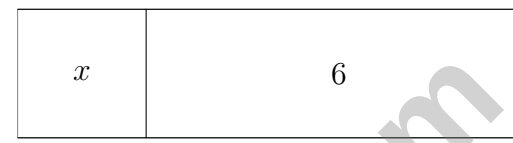
5)



The number line shows three equal jumps from 0 that land on 12. Which multiplication does this represent?

☐ A. 3×4
☐ B. 4×4
☐ C. 3×3
☐ D. $4 + 3$

6)



Total: $x + 6$

The tape diagram shows a total length. Which phrase does this represent?

☐ A. Six times a number x
☐ B. A number x plus 6
☐ C. A number x minus 6
☐ D. Six divided by x

7) Which pair of terms can be combined into a single term?

☐ A. $3x^2$ and $3x$
☐ B. $5p$ and $5q$
☐ C. $2y$ and $8y$
☐ D. $6a^2$ and $6ab$

8) Evaluate $\frac{2x+6}{2}$ when $x = 3$.

☐ A. 3
☐ B. 4
☐ C. 5
☐ D. 6

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.

Nevada Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

1) **Choice D is correct.** 6.NS.C.7c Error analysis: Jordan confused absolute value with the original number. Absolute value $|-7| = 7$ represents distance, which is always non-negative.
2) **Choice B is correct.** 6.G.A.1 Area of a trapezoid $= \frac{1}{2}(b_1 + b_2) \times h = \frac{1}{2}(7+9) \times 4 = \frac{1}{2} \times 16 \times 4 = 32$ m^2.
3) **Choice D is correct.** 6.G.A.2 $V = 7 \times 3 \times 2 = 21 \times 2 = 42$ cm^3.
4) **Choice C is correct.** 6.G.A.1 Area of a parallelogram = base × height $= 7 \times 4 = 28$ square units.
5) **Choice C is correct.** 6.G.A.4 Base area $= 8^2 = 64$ cm^2. Lateral area $= 4 \times \frac{1}{2}(8)(6) = 96$ cm^2. Total $SA = 64 + 96 = 160$ cm^2.
6) **Choice A is correct.** 6.NS.B.4 Factors of 26: $1, 2, 13, 26$. Factors of 39: $1, 3, 13, 39$. Common factors: $1, 13$. GCF is 13.
7) **Choice C is correct.** 6.NS.C.6c Point V is located 0.7 units to the right of 1, placing it at 1.7.
8) **Choice A is correct.** 6.NS.B.3 The point to the left of -4 is 13 units less than -4: $-4 - 13 = -17$.
9) **Choice C is correct.** 6.EE.A.2a The tree shows $3x$ and 5 combining via addition into $3x + 5$, representing the sum of $3x$ and 5. (Distractor B would be $3(x + 5) = 3x + 15$, which is different.)
10) **The correct answer is 25.** 6.EE.B.8 At least 25 includes 25 and all greater numbers.
11) **Choice A is correct.** 6.EE.A.2b The coefficient is 6, which comes from $2 \cdot 3$. The factors of 6 that are visible in the original expression are 2 and 3.
12) **Choice B is correct.** 6.G.A.3 For a vertical segment: $10 - 3 = 7$ units.
13) **Choice D is correct.** 6.RP.A.1 Area $= \pi r^2 \approx 3.14 \times 2^2 = 3.14 \times 4 = 12.56$ ft^2.
14) **Choice B is correct.** 6.SP.A.2 Order the data: $2, 3, 4, 5, 6, 8, 10$. The middle value is the 4th value, which is 5.
15) **Choice A is correct.** 6.SP.B.4 In a histogram, the height of each bar represents the frequency, which is the count of data points falling within that bin range.
16) **Choice C is correct.** 6.RP.A.1 Q_1, Q_2 (median), and Q_3 are the three quartiles shown in a box plot. They divide the dataset into four equal parts of 25% each.
17) **Choice D is correct.** 6.SP.B.5 Mean $= (30 + 35 + 40 + 42 + 45 + 90)/6 = 47.0$; median of 6 values is average of 3rd and 4th: $(40 + 42)/2 = 41$. The outlier 90 pulls the mean up significantly but has minimal impact on the median.
18) **The correct answer is Equivalent-fraction divide and reciprocal multiply.** 6.NS.A.1 B uses a common denominator so you are dividing same-size chunks: $\frac{15}{18} \div \frac{6}{18} = \frac{15}{6} = \frac{5}{2}$. C keeps $\frac{5}{6}$ and multiplies by the reciprocal of $\frac{1}{3}$, which is $\frac{3}{1}$—that is $\frac{5}{6} \times \frac{3}{1}$, also simplifying to $\frac{5}{2}$. A never flips $\frac{1}{3}$, D mixes random numbers together, and E flips $\frac{5}{6}$ instead of flipping the divisor.
19) **Choice C is correct.** 6.NS.B.3 Outcomes: HH, HT, TH, TT. Total outcomes $= 2 \times 2 = 4$.
20) **Choice A is correct.** 6.SP.B.4 The smallest value in the plot is found by taking the smallest stem (14) with its smallest leaf (0), giving 140 cm.
21) **Choice A is correct.** 6.RP.A.3 Red comes first, so begin with 8 : 12. Divide both parts by the GCF, 4, to get 2 : 3.
22) **Choice D is correct.** 6.RP.A.3d Divide cups by minutes: $54 \div 9 = 6$ cups per minute.
23) **The correct answer is 99.** 6.G.A.1 $A = \frac{1}{2} \times 11 \times 18 = 99$ in^2.
24) **The correct answer is $(2, 1)$.** 6.NS.C.8 Translate: $(4, 0) \to (4 - 2, 0 + 1) = (2, 1)$.
25) **Choice C is correct.** 6.RP.A.3b Barn store costs $4.32 \div 24 = \$0.18$ per egg. The farmer's market costs $2.88 \div 18 = \$0.16$ per egg, so the farmer's market has the lower unit price.
26) **Choice C is correct.** 6.NS.C.7d At \$50 per month: $\frac{\$500}{\$50} = 10$ months.

Ahoy, Math Sailor!

◇ You sailed through 8 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

⋆ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ⋆

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 8 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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

8 PRINTED TESTS

+

2 ONLINE TESTS

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.

Understand Key Concepts
Reinforce important math ideas 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.

8 FULL-LENGTH PRACTICE TESTS

2 ONLINE PRACTICE TESTS

DETAILED ANSWER EXPLANATIONS