7 Nevada

Smarter Balanced

7 PRINTED TESTS + 2 ONLINE TESTS

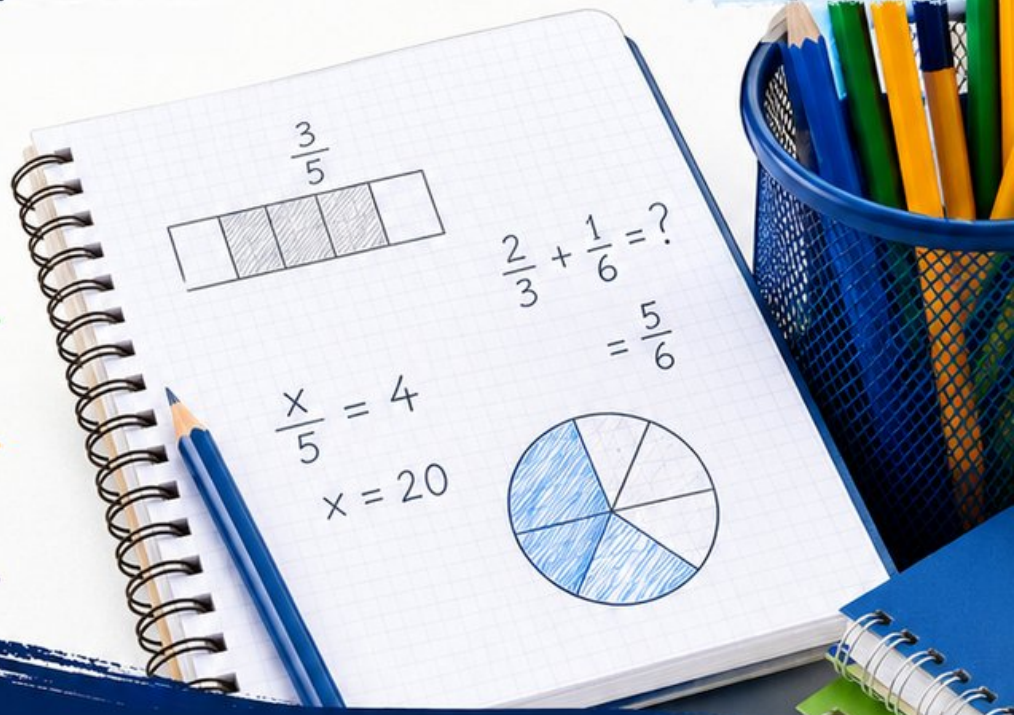
Grade 6 MATH

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

- 7 Full-Length Printed Tests
- Standards-Aligned Math Practice
- Detailed Answer Keys and Explanations
- Build Confidence. Achieve Success.

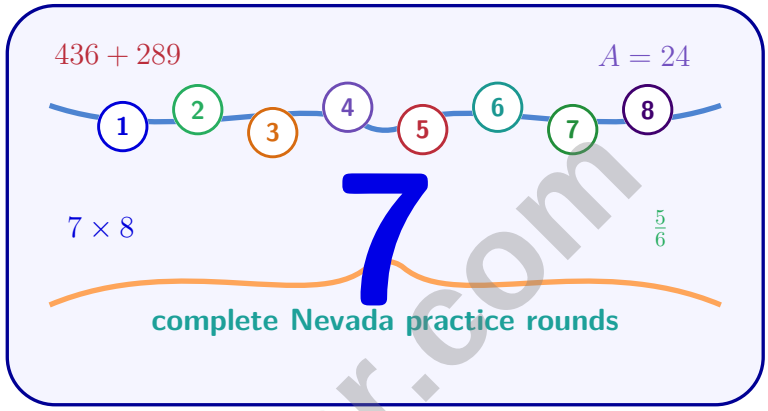


You've Got This!

PREPARE PRACTICE SUCCEED | PRACTICE WITH PURPOSE | STRENGTHEN MATH SKILLS | REVIEW, IMPROVE, AND SUCCEED

7 Nevada Smarter Balanced Grade 6 Math Practice Tests

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



Seven 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

Copyright ©

Testinar Inc

Published by Testinar Inc

Testinar.com

Welcome, Nevada Math Explorer!

Eight focused rounds using desert-sharp review

This book gives you seven 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 seven-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.

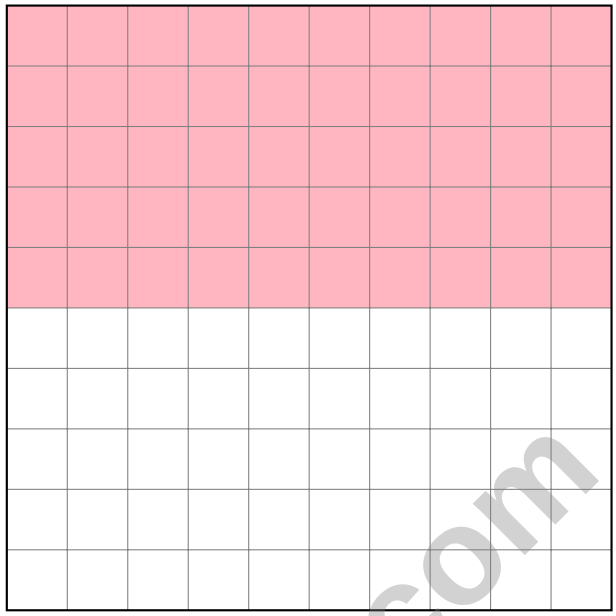
What Is Inside?

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.
Test 7	Final stamina round 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) 

What fraction of the grid is NOT shaded pink, in simplest form?

☐ A. $\frac{1}{2}$
☐ B. $\frac{3}{5}$
☐ C. $\frac{1}{4}$
☐ D. $\frac{2}{5}$

2) A dot plot shows the data: • • •• at 5, •• at 7, and • at 11. What is the range?

☐ A. 4
☐ B. 5
☐ C. 7
☐ D. 6

3) A school is organizing a field day. Events are scheduled every 20 minutes for one activity and every 30 minutes for another. If both activities start at the same time, when will they start together again? (Give answer in minutes.)

4) Two classes compare their test results using box plots. Class 1: IQR = 10. Class 2: IQR = 25. Which is most accurate?

☐ A. Class 1 has more students
☐ B. Class 2 has higher test scores
☐ C. Class 1's middle 50% of scores are more tightly clustered
☐ D. Class 1 did better overall

5) A container has 15 balls: 5 red, 4 blue, 3 yellow, and 3 green. If one ball is drawn at random, what is the probability it is **not** red?

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

6) A scientist records bird counts at different altitudes. The stem-and-leaf plot uses a 2-digit stem (like 15, 16, 17). If stem 16 has leaves 0, 3, 7, what are the data values?

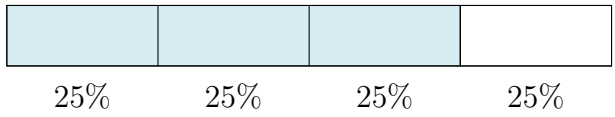
☐ A. 160, 163, 167
☐ B. 16, 16, 16
☐ C. 1603, 1663, 1673
☐ D. Cannot determine without the full plot

7) A classroom has 8 boys and 10 girls. Write the ratio of boys to girls in the form "a to b".

☐ A. 10 to 8
☐ B. 18 to 8
☐ C. 8 to 18
☐ D. 8 to 10

8) A number line shows tick marks at halves from -2 to 2. What fraction is located halfway between -1 and 0? Write your answer as a fraction.

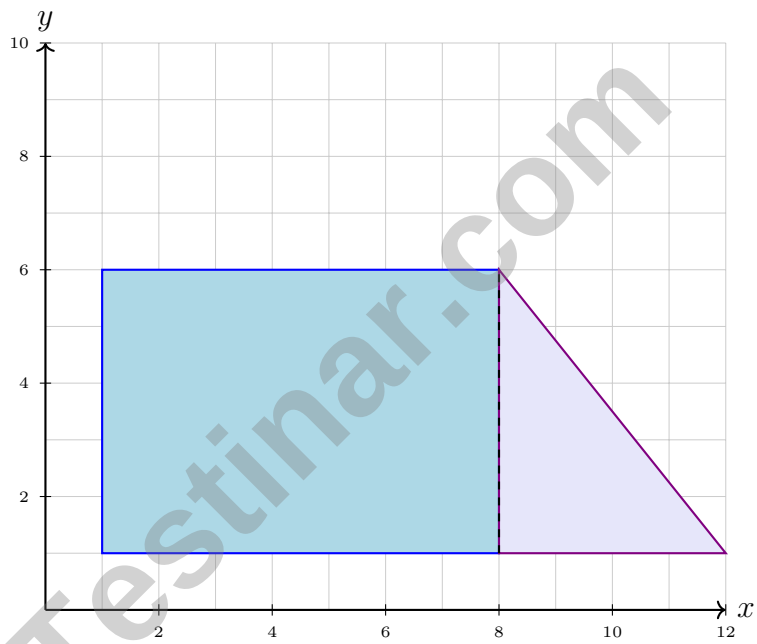
9)



In the bar model above, the shaded region represents 75 students. How many students are there in total?

☐ A. 100
☐ B. 150
☐ C. 200
☐ D. 300

10)



A composite figure consists of a rectangle and a triangle. The rectangle has vertices at $(1, 1)$, $(8, 1)$, $(8, 6)$, and $(1, 6)$. The triangle has vertices at $(8, 1)$, $(12, 1)$, and $(8, 6)$. What is the total area?

☐ A. 40 square units
☐ B. 45 square units
☐ C. 50 square units
☐ D. 55 square units

1) Which option correctly identifies all expressions shown that equal 6.2?

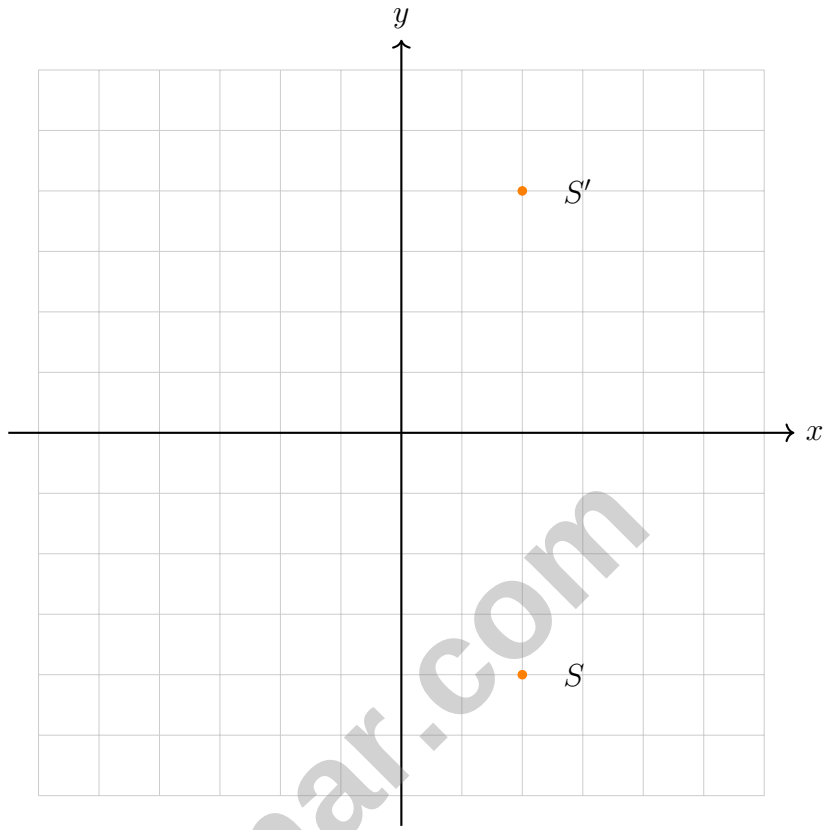
☐ A. $3.1 + 3.1$
☐ B. 3.1×2
☐ C. $12.4 \div 2$
☐ D. All of the above

Long Division: $3{,}456 \div 16$

$34 \div 16$	$= 2$, remainder 2
Bring down 5: $25 \div 16$	$= 1$, remainder 9
Bring down 6: $96 \div 16$	$= 6$, remainder 0
Quotient:	**216**

2) What is the quotient of $3{,}456 \div 16$?

☐ A. 216
☐ B. 214
☐ C. 220
☐ D. 224



3)

Point S is reflected to create point S'. What is the relationship between the x-coordinates of S and S'?

☐ A. They are opposites
☐ B. One is zero
☐ C. They are swapped
☐ D. They are equal

4) Convert the decimal 0.006 to a percent.

☐ A. 0.6%
☐ B. 6%
☐ C. 60%
☐ D. 600%

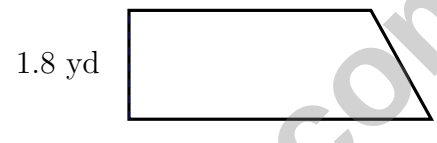
1) For a large data set, which measure of spread is often preferred when the data contains outliers?

☐ A. Range
☐ B. Interquartile range
☐ C. Mode
☐ D. Mean

2) Which phrase shows a price rate?

☐ A. Ten students in a class
☐ B. Seventy cents per pound
☐ C. Four players on a team
☐ D. Six wheels on a car

3)



What is the area of the parallelogram shown above?

4) A water fountain fills 10 gallons in 2 minutes. What is the unit rate in gallons per minute?

☐ A. 2 gal/min
☐ B. 5 gal/min
☐ C. 8 gal/min
☐ D. 20 gal/min

5) A store item is marked $64. The sales tax is 8%. What is the total cost including tax?

☐ A. $67.52
☐ B. $69.12
☐ C. $72.00
☐ D. $77.12

6) Two friends have different budgets. Friend X spends $500 on housing and it represents 50% of her income. Friend Y spends $600 on housing and it represents 40% of his income. Who has a higher income?

☐ A. Friend X has higher income.
☐ B. Cannot be determined from the given information.
☐ C. They have the same income.
☐ D. Friend Y has higher income.

7) A store has four items weighing: 0.75 kg, 1.2 kg, 0.8 kg, and 0.6 kg. What is the total weight?

☐ A. 3.95 kg
☐ B. 2.75 kg
☐ C. 3.35 kg
☐ D. 4.15 kg

8) Simplify the ratio 14 : 21.

☐ A. 1 : 2
☐ B. 2 : 3
☐ C. 3 : 2
☐ D. 14 : 21

9) A rectangular prism has volume 120 cubic feet. Its length is 8 ft and its width is 5 ft. What is the height in feet?

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

Practice Test 1 Answers and Explanations

1) **Choice A is correct.** 6.RP.A.3c Shaded: 50 squares (5 rows × 10 cols). Unshaded: 50 squares out of 100 $= \frac{50}{100} = \frac{1}{2}$ in simplest form.
2) **Choice D is correct.** 6.SP.B.5c The data is $5, 5, 5, 5, 7, 7, 11$. Maximum $= 11$, minimum $= 5$. Range $= 11 - 5 = 6$.
3) **The correct answer is** 60. 6.NS.B.4 This is an LCM problem. Find LCM of 20 and 30. Prime factors: $20 = 2^2 \times 5$, $30 = 2 \times 3 \times 5$. LCM $= 2^2 \times 3 \times 5 = 60$ minutes.
4) **Choice C is correct.** 6.SP.B.5 IQR measures the spread of the middle 50% of data. A smaller IQR (10 vs 25) means the scores in that middle range are closer together, indicating a more tightly clustered group of typical scores.
5) **Choice A is correct.** 6.NS.B.3 Non-red balls $= 4 + 3 + 3 = 10$. Probability $= \frac{10}{15} = \frac{2}{3}$.
6) **Choice A is correct.** 6.SP.B.4 With a 2-digit stem (16), each leaf appends to form the value. Stem 16 with leaves $0, 3, 7$ gives values $160, 163, 167$.
7) **Choice D is correct.** 6.RP.A.1 Read the words carefully: "boys to girls" means the boys number comes first. There are 8 boys and 10 girls, so the ratio is 8 to 10.
8) **The correct answer is** $-\frac{1}{2}$. 6.NS.C.6c The midpoint is $\frac{-1+0}{2} = -\frac{1}{2}$.
9) **Choice A is correct.** 6.RP.A.3c Shaded portion is 75% of the total. If 75% equals 75 students, then 100% $= \frac{75}{0.75} = 100$ students.
10) **Choice B is correct.** 6.G.A.1 Rectangle: base $8 - 1 = 7$, height $6 - 1 = 5$, area $= 35$ square units. Triangle: base $12 - 8 = 4$, height $6 - 1 = 5$, area $= \frac{1}{2} \times 4 \times 5 = 10$ square units. Total $= 35 + 10 = 45$ square units.
11) **Choice C is correct.** 6.G.A.4 The surface area of a rectangular prism is $SA = 2LW + 2LH + 2WH$. This accounts for all 6 faces: two $L \times W$ faces, two $L \times H$ faces, and two $W \times H$ faces. Choice C is the correct formula.
12) **Choice A is correct.** 6.NS.C.8 Reflection over the y-axis negates the x-coordinate: $(-3, 2) \to (3, 2)$.
13) **Choice D is correct.** 6.SP.A.2 This is statistical because team members have different heights and you must collect data from multiple sources. The number of people or a team's fixed size does not prevent variability—different players still have different heights.
14) **Choice C is correct.** 6.SP.B.5c Order: $12, 14, 15, 16, 18, 19, 20$. The median (4th of 7) is 16.
15) **Choice C is correct.** 6.NS.A.1 34% of 450 is $0.34 \times 450 = 153 \approx 150$ items. (Note: exact percentages round to 22.222...% and 33.333...%.)
16) **Choice D is correct.** 6.RP.A.3 In March, girls read 32 books and boys read 26 books. Since $32 > 26$, girls read more in March only.
17) **Choice A is correct.** 6.NS.B.3 Increases by means adding. Start at -8 and add 15: $-8 + 15 = 7°C$.
18) **Choice D is correct.** 6.NS.B.3 Negative divided by positive is negative: $\frac{-45}{5} = -9$.
19) **The correct answer is** -1.5. 6.NS.C.7d The smallest value in the list is -1.5.
20) **The correct answer is Both A and D have a quotient of** 156.. 6.NS.B.2 A: $4{,}680 \div 30 = 156$ ✓. B: $4{,}500 \div 30 = 150$. C: $4{,}500 \div 25 = 180$. D: $2{,}808 \div 18 = 156$ ✓. E: $6{,}000 \div 40 = 150$. Verify: $30 \times 156 = 4{,}680$ and $18 \times 156 = 2{,}808$.
21) **The correct answer is** 3. 6.NS.C.8 The points share the same x-coordinate (1). The distance is $|5 - 2| = 3$ units.
22) **Choice A is correct.** 6.EE.A.2a "The difference of c and 2" is $(c - 2)$. "9 divided by" that difference requires parentheses in the denominator: $\frac{9}{c - 2}$.
23) **Choice B is correct.** 6.EE.A.2b The coefficient of n is 85. The constant (the term with no variable) is 250.
24) **Choice D is correct.** 6.EE.A.2c Substitute $x = -2$: $(-2)^2 - 3(-2) = 4 + 6 = 10$.

Author's Note

Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 7 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

⋆ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ⋆

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

MASTER TODAY. SUCCEED TOMORROW.

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 comprehensive assessments.

With 7 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.

7 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.

Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.

Test Confidence

Become familiar with test formats and improve accuracy and speed.

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.

7 FULL-LENGTH PRINTED TESTS

STANDARDS-ALIGNED PRACTICE

DETAILED ANSWER KEYS & EXPLANATIONS