

GRADE

6

MATH

6

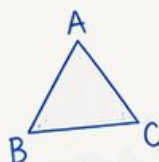
Nevada

Smarter Balanced

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 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



6 PRINTED TESTS + 2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills



SUCCEED

Build confidence and achieve your best

6 Nevada Smarter Balanced Grade 6 Math Practice Tests

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



Six 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 six 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 six-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 1–2 | Foundation rounds for ratios, rational numbers, operations, and careful reading. |
| Tests 3–5 | Skill-building rounds with expressions, equations, geometry, data, and problem models. |
| Test 6 | 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.

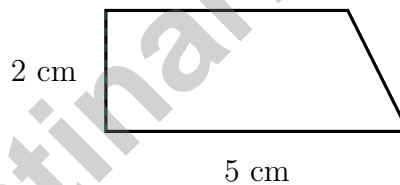


Scan me!
For more practice
& answers

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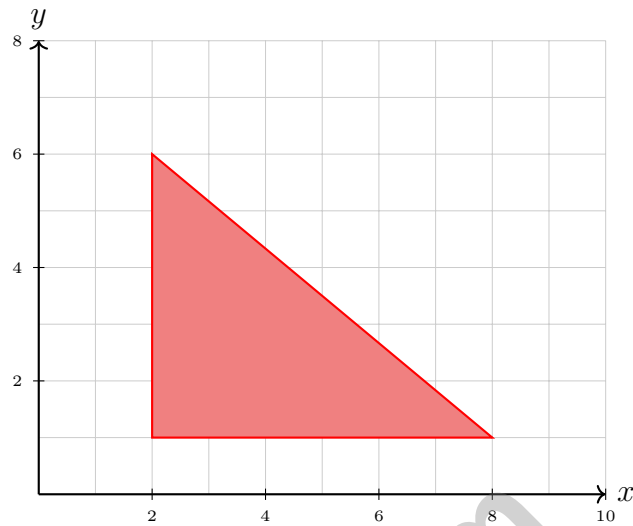
| | | |
|---|-------|------------|
| ★ Practice Test 1 | _____ | 14 |
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- 1) A storage box has dimensions $2\frac{1}{2}$ m by $1\frac{1}{2}$ m by 2 m. Find its volume.
- A. 6 m^3 C. 9 m^3
 B. 7.5 m^3 D. 12.5 m^3
- 2) Luis has \$12. His friend gives him d dollars. How much money does Luis have now?
- A. $12 - d$ C. $12d$
 B. $12 + d$ D. $\frac{12}{d}$
- 3) A shop has some apples. After selling 12 apples, there are 28 left. Write an equation and solve for the original number of apples x .
- A. $x + 12 = 28; x = 16$ C. $12x = 28; x = 2.33$
 B. $x - 12 = 28; x = 40$ D. $\frac{x}{12} = 28; x = 336$



- 4) This is a parallelogram rotated to look slanted. What is its area?
- A. 7 cm^2 C. 12 cm^2
 B. 10 cm^2 D. 20 cm^2





5)

A right triangle has vertices at $(2, 1)$, $(8, 1)$, and $(2, 6)$. What is its area?

- A. 12 square units C. 18 square units
 B. 15 square units D. 20 square units

6) A chemistry lab recorded 520 observations. The circle graph shows $\frac{5}{26}$ were anomalies. How many observations were anomalies?

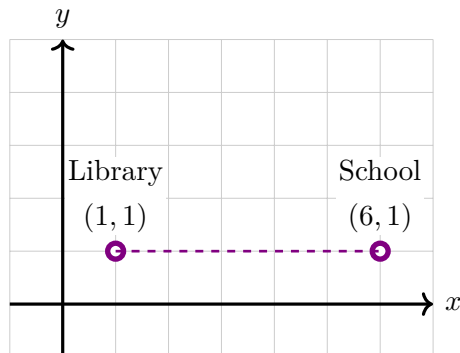
- A. 80 C. 100
 B. 90 D. 110

7) Which fraction is greater than $-\frac{1}{2}$?

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



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8)

On a map, the library is at (1, 1) and the school is at (6, 1). If each unit is 200 meters, what is the distance?

- A. 600 m
- B. 800 m
- C. 1000 m
- D. 1200 m

9) A city's elevation is 385 feet above sea level. A valley is at -215 feet below sea level. What is the elevation difference between the city and the valley?

- A. 170 feet
- B. 385 feet
- C. 600 feet
- D. -215 feet

10)

| Expression | Result |
|--------------------|--------|
| $(-3) \times 5$ | ? |
| $(-3) \times (-5)$ | ? |

Which row correctly matches the expressions to their results?

- A. -15 and -15
- B. 15 and 15
- C. 15 and -15
- D. -15 and 15

1) Which expression is equivalent to $2(4x + 1)$?

A. $8x + 2$

C. $4x + 2$

B. $6x + 2$

D. $8x + 1$

2) A dot plot has values 1 mile: 2 students; 2 miles: 5; 3 miles: 8; 4 miles: 4; 5 miles: 1.
Find the mean miles run.

3) Find the mean of 3, 7, 8.

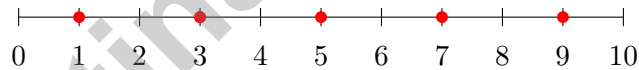
A. 5

C. 7

B. 6

D. 18

4)



A dot plot shows the data: one dot at 1, two dots at 3, one dot at 5, one dot at 7, one dot at 9. What is the range?

A. 6

C. 2

B. 8

D. 5



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- 5) A quality control manager receives monthly defect counts: 2, 3, 4, 5, 6, 8, 10, 15. She wants to determine if the process is stable. Should she use the mean or median?
- A. Mean, because it uses all data points
- B. Median, because the high count of 15 may be an unusual spike
- C. Mode, because it is the most stable measure
- D. Range, because it shows the worst-case scenario
- 6) Which statement describes an **unlikely** event (probability between 0 and 0.5)?
- A. The probability is 0.9.
- B. The probability is 0.15.
- C. The probability is 0.6.
- D. The probability is 1.0.
- 7) A gym tracks daily visitors with a stem-and-leaf plot. The plot spans stems 10 through 13 (using 2-digit stems). If each stem has at least 2 leaves, what is the minimum number of days recorded?
- A. 2
- B. 4
- C. 6
- D. 8
- 8) At a pet shelter, the ratio of dogs to cats is 3 : 2. If there are 18 dogs, how many cats are there?
- A. 6
- B. 27
- C. 20
- D. 12



1) Evaluate: $(10 - 5) \times 2^2$

A. 10

C. 25

B. 40

D. 20

2) A jacket costs \$80 after a 20% discount. What was the original price?

A. \$96

C. \$120

B. \$160

D. \$100

3) A smoothie contains blueberries and strawberries in the ratio 3 : 4. Which pair could NOT describe this smoothie?

A. 6 blueberries and 8 strawberries

C. 12 blueberries and 15 strawberries

B. 9 blueberries and 12 strawberries

D. 15 blueberries and 20 strawberries

4)

| Cups of Juice | 1 | 2 | 3 | 4 |
|---------------|------|------|------|-------|
| Cost (\$) | 2.50 | 5.00 | 7.50 | 10.00 |

What is the unit rate in dollars per cup?

A. \$1.50 per cup

C. \$2.50 per cup

B. \$2.00 per cup

D. \$5.00 per cup

5) A worker earns \$3000 per month gross income (before deductions). Her deductions include taxes (\$400), health insurance (\$150), and retirement savings (\$100). What is her net income (take-home pay)?

A. \$2300

C. \$2450

B. \$2350

D. \$2500



6) Simplify $-3a + 5b - 2a + b - 3b$.

A. $-5a + 3b$

B. $-5a + b$

C. $-a + 5b$

D. $-5a - 3b$

7) A student mistakenly writes $s = 25t$ to represent “the total cost t is \$25 per shirt s ”. What is the error?

 A. The variables are swapped B. The number 25 is incorrect C. The equation should use addition D. There is no error

8) A coffee shop sells 3 lattes for \$12. At this rate, how much do 7 lattes cost?

A. \$24

B. \$28

C. \$32

D. \$36

9) A dataset has 8 values with a mean of 45. If 7 of the values are $\{38, 40, 42, 44, 46, 48, 50\}$, what is the eighth value?

10) A book club reads pages at a constant rate. The table shows how many pages are read in different times:

| Pages Read | Time (hours) |
|------------|--------------|
| 45 | 1.5 |
| 90 | 3 |
| ? | 4.5 |

A. 120

B. 130

C. 135

D. 150



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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.



Nevada Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(6.G.A.2)** $V = 2.5 \times 1.5 \times 2 = 3.75 \times 2 = 7.5 \text{ m}^3$.
- 2) **Choice B is correct.** **(6.EE.B.6)** Receiving money means adding to what he already has: $12 + d$.
- 3) **Choice B is correct.** **(6.EE.B.5)** Starting number minus 12 sold equals 28 remaining. So $x - 12 = 28$, giving $x = 40$.
- 4) **Choice B is correct.** **(6.G.A.1)** Area = base \times height = $5 \times 2 = 10 \text{ cm}^2$. The dashed line shows height.
- 5) **Choice B is correct.** **(6.G.A.1)** Base: $8 - 2 = 6$ units. Height: $6 - 1 = 5$ units. Area = $\frac{1}{2} \times 6 \times 5 = 15$ square units.
- 6) **Choice C is correct.** **(6.NS.A.1)** $\frac{5}{26} \times 520 = \frac{2600}{26} = 100$ observations.
- 7) **Choice C is correct.** **(6.NS.C.7d)** $-\frac{1}{4} = -0.25 > -\frac{1}{2} = -0.5$. All other choices are less than $-\frac{1}{2}$.
- 8) **Choice C is correct.** **(6.NS.C.8)** Distance on map: $|6 - 1| = 5$ units. Actual distance: $5 \times 200 = 1000$ meters.
- 9) **Choice C is correct.** **(6.NS.B.3)** Elevation difference: $385 - (-215) = 385 + 215 = 600$ feet.
- 10) **Choice D is correct.** **(6.NS.B.3)** Negative times positive is negative: $(-3) \times 5 = -15$. Negative times negative is positive: $(-3) \times (-5) = 15$.
- 11) **The correct answer is 6.** **(6.EE.A.3)** Combine like terms: $4x + 2x = 6x$.
- 12) **Choice A is correct.** **(6.EE.A.3)** Differential is points scored minus points allowed: $48 - 52 = -4$.
- 13) **Choice C is correct.** **(6.EE.A.1)** $4^3 = 4 \times 4 \times 4 = 64$. The exponent 3 tells us to multiply 4 by itself 3 times.
- 14) **Choice C is correct.** **(6.EE.A.2a)** "The product of y and 9" is $9y$. "7 less than $9y$ " means subtract 7 from $9y$: $9y - 7$.
- 15) **Choice A is correct.** **(6.EE.A.2b)** Terms include their signs. When you see $-3y$ or $-5z$, the sign is part of the term.
- 16) **Choice C is correct.** **(6.EE.A.2c)** Lexi incorrectly squared the entire expression 2×3 before applying the exponent to just x . The exponent applies only to x , not to the coefficient 2.
- 17) **Choice C is correct.** **(6.G.A.1)** Rectangle area is $10 \times 6 = 60 \text{ cm}^2$. Triangle area is $\frac{1}{2} \times 10 \times 4 = 20 \text{ cm}^2$. The total area is $60 + 20 = 80 \text{ cm}^2$.
- 18) **Choice D is correct.** **(6.G.A.3)** Side PQ is horizontal from $(1, 1)$ to $(5, 1)$. Length = $5 - 1 = 4$ units.
- 19) **The correct answer is 32.** **(6.EE.B.8)** No more than 32 means 32 is the maximum allowed value.
- 20) **The correct answer is Both coordinates are positive.** **(6.NS.C.8)** In Quadrant I (upper right), the x -coordinate is always positive (A is correct) and the y -coordinate is always positive (C is correct). Statement B is false because $y > 0$ in Quadrant I. Statement D is not always true. Statement E is false because Quadrant I is upper right, not lower right.
- 21) **Choice C is correct.** **(6.RP.A.1)** Radius $r = \frac{20}{2} = 10$ cm. Area = $\pi r^2 \approx 3.14 \times 10^2 = 3.14 \times 100 = 314 \text{ cm}^2$.
- 22) **Choice D is correct.** **(6.SP.A.2)** Max = 95, Min = 68. Range = $95 - 68 = 27$.
- 23) **Choice C is correct.** **(6.SP.B.5c)** Ordered: 5, 10, 15, 20, 25. The actual median (middle value) is 15. The student's answer was right by accident but reasoning was flawed.
- 24) **Choice D is correct.** **(6.SP.B.5c)** The lower half of the ordered data is 2, 3, 4. The median of the lower half (lower quartile, Q1) is 3.
- 25) **The correct answer is -4.** **(6.EE.B.8)** The boundary number is the point where the graph starts: -4 .
- 26) **Choice C is correct.** **(6.RP.A.1)** The upper whisker connects Q3 to the maximum value in the dataset.
- 27) **Choice C is correct.** **(6.SP.B.5)** The spacing increases toward the right (gaps: 3, 4, 3, 3, 4, 6), with a longer tail on the right side.
- 28) **Choice B is correct.** **(6.NS.B.3)** $\frac{1}{4} = 0.25$, which is less than 0.5, so the event is unlikely.
- 29) **Choice C is correct.** **(6.SP.B.4)** Count the leaves on each stem: stem 2 (the 20s) has 4 leaves, stem 3 (the 30s) has 4 leaves, and stem 4 (the 40s) has 3 leaves. Stems 2 and 3 are tied for the most data points, so the correct response is that both intervals have equal counts.



Ahoy, Math Sailor!

◇ You sailed through 6 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 6 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

PRACTICE 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 6 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.

6
PRINTED
TESTS

+
2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS