

4 Nevada

Smarter Balanced

GRADE

6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

PRINTED
TESTS



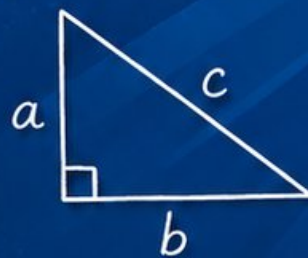
2

ONLINE
TESTS



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



USE THESE TWO
**ADDITIONAL ONLINE
PRACTICE TESTS**

FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

4 Nevada Smarter Balanced Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using desert-sharp review

This book gives you four 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 four-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?

Four Smarter Balanced tests, 160 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 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
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

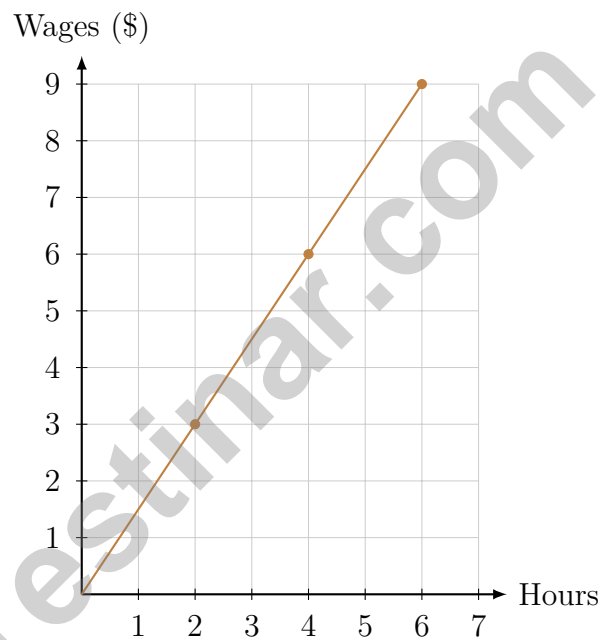
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1) Which question would you answer by collecting data?

- A. What is 5×6 ? C. What are the favorite colors of students in my grade?
- B. How many planets are in our solar system? D. What is the freezing point of water?

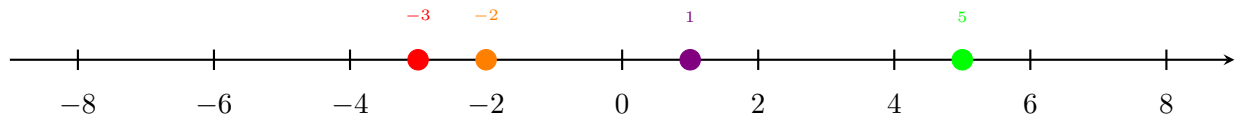
2) The graph shows the relationship between hours worked and wages earned. Which statement is true?



- A. At 2 hours, wages are \$6 C. At 4 hours, wages are \$6
- B. The hourly wage is \$2.50 D. The hourly wage is \$2



3)



On a number line, which number is farthest from zero?

- A. $|-3|$ C. $|-2|$
 B. $|5|$ D. $|1|$

4) In a group of 200 people, 50 are left-handed. What percent are left-handed?

5) The number line below shows tick marks at each integer. Point M is marked on the line. What is the coordinate of point M?



- A. 2.5 C. 2
 B. 2.25 D. 3

6) What is the reflection of the point $(2, 6)$ across the x -axis?

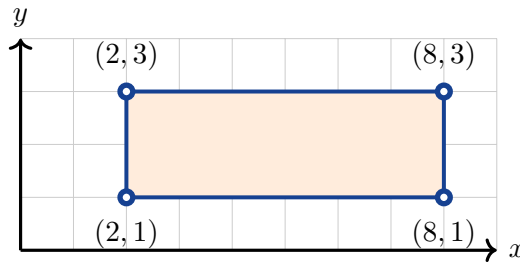
- A. $(-2, 6)$ C. $(-2, -6)$
 B. $(2, -6)$ D. $(6, 2)$



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& answers

7) Marcus has \$5 and Jessica has a debt of \$3 (written as -3). Who has more money?

- A. Marcus C. They have the same
 B. Jessica D. Cannot determine



8)

What is the height (vertical length) of the rectangle with vertices at $(2, 1)$, $(8, 1)$, $(8, 3)$, and $(2, 3)$?

- A. 2 units C. 6 units
 B. 4 units D. 8 units

9) Two triangles: Triangle P has base 18 cm and height 4 cm. Triangle Q has base 6 cm and height 12 cm. What is the difference in their areas?

- A. 0 cm^2 C. 24 cm^2
 B. 12 cm^2 D. 36 cm^2

10) A gift box is 4 in long, $3\frac{1}{2}$ in wide, and 2 in tall. What is its volume?

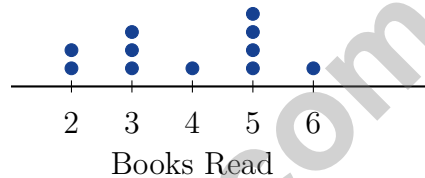
- A. 9.5 in^3 C. 24 in^3
 B. 14 in^3 D. 28 in^3



1) Which scenario matches the expression $5x + 10$?

- A. A student has \$5 and earns \$10 per week
- B. A number is multiplied by 5 and then 10 is added
- C. A number is 5 plus 10
- D. A cost increases by 5 and then by 10 more

2) A dot plot shows the number of books read by students: 2, 2, 3, 3, 3, 4, 5, 5, 5, 5, 6. Which value appears most frequently?

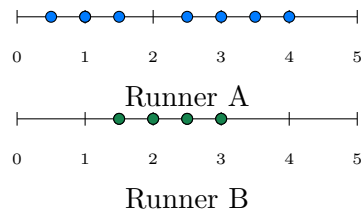


- A. 2 books
- B. 3 books
- C. 5 books
- D. 6 books
- 3) In a box plot, if the median is much closer to Q_1 than to Q_3 , what does this suggest about the data?
- A. The data is symmetric.
- B. The data is skewed right (positively skewed).
- C. The data has no outliers.
- D. The data has equal numbers of values above and below the median.

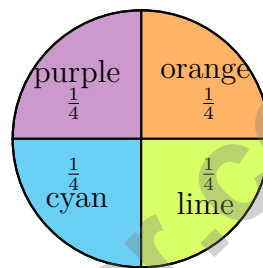


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For more practice
& answers

- 4) Two runners' sprint times (seconds) over 8 races. Which runner has more consistent sprint times?



- A. Runner A
 C. Both are equally consistent
 B. Runner B
 D. Cannot determine from dot plots



5)

The spinner above has four equal sections. What is the probability of spinning orange or cyan?

- A. $\frac{1}{4}$
 C. $\frac{3}{4}$
 B. $\frac{1}{2}$
 D. 1
- 6) A dataset in a stem-and-leaf plot has 8 data points, with the median value being 67. This means:

- A. The 4th and 5th values average to 67
 C. Half the data is above 67 and half is below
 B. The 5th value is exactly 67
 D. The value 67 appears twice in the data



1) Solve for x : $x + 7 = 15$

A. $x = 7$

B. $x = 8$

C. $x = 15$

D. $x = 22$

2) What is $\frac{11}{12} \div \frac{1}{3}$?

A. $\frac{11}{36}$

B. $\frac{4}{11}$

C. $2\frac{3}{4}$

D. $\frac{12}{11}$

3) A farmer has 5,460 seedlings to plant equally in 28 rows. How many seedlings go in each row?

A. 195

B. 200

C. 205

D. 210

4) A recipe uses 2 cups of flour for every 1 cup of sugar. If you want to make a batch using 5 cups of flour, how many cups of sugar do you need? Explain your reasoning using the concept of proportionality.

5) A book costs \$14.95. A pencil costs \$0.75. What is the difference in price?

A. \$14.20

B. \$15.70

C. \$13.20

D. \$14.75



Scan me!
For more practice
& answers

- 6) A library needs to arrange books on shelves. They have 52 fiction books and 78 non-fiction books. They want equal-sized stacks of each type on each shelf with nothing left over. What is the maximum number of shelves?
- A. 13 shelves C. 39 shelves
 B. 26 shelves D. 52 shelves
- 7) On a number line, point X is at -3.5 and point Y is at 1.5 . What is the distance between points X and Y?
- A. 2 C. 6
 B. 3 D. 5
- 8) Which point is NOT on an axis?
- A. $(0, 5)$ C. $(0, 0)$
 B. $(-3, 0)$ D. $(2, -4)$
- 9) Which number is closest to zero?
- A. -4 C. -0.3
 B. 2 D. 1.5



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.



Scan me!
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Nevada Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(6.SP.A.2)** This is a statistical question requiring data collection because different students have different favorite colors. The other questions have single, fixed answers found through knowledge, not data collection.
- Choice C is correct.** **(6.EE.C.9)** The graph includes the point (4,6), so at 4 hours the wages are \$6. The slope is $\frac{6-3}{4-2} = \frac{3}{2} = 1.5$, so the hourly wage is \$1.50, not \$2.50 or \$2.
- Choice B is correct.** **(6.NS.C.7c)** We compare absolute values: $|-3| = 3$, $|5| = 5$, $|-2| = 2$, $|1| = 1$. The largest is 5.
- The correct answer is 25%.** **(6.RP.A.3c)** $\frac{50}{200} = \frac{25}{100} = 25\%$ (divide both by 2).
- Choice A is correct.** **(6.NS.C.6c)** Point M is halfway between 2 and 3, which is 2.5 or $2\frac{1}{2}$.
- Choice B is correct.** **(6.NS.C.8)** Reflection across the x -axis changes the sign of the y -coordinate while the x -coordinate remains the same. The point (2,6) becomes (2,-6).
- Choice A is correct.** **(6.NS.C.7d)** $5 > -3$, so Marcus has more money.
- Choice A is correct.** **(6.NS.C.8)** Height is the vertical distance: $|3 - 1| = 2$ units.
- Choice A is correct.** **(6.G.A.1)** Triangle P: $A = \frac{1}{2} \times 18 \times 4 = 36 \text{ cm}^2$. Triangle Q: $A = \frac{1}{2} \times 6 \times 12 = 36 \text{ cm}^2$. Difference: $36 - 36 = 0 \text{ cm}^2$.
- Choice D is correct.** **(6.G.A.2)** $V = 4 \times 3.5 \times 2 = 14 \times 2 = 28 \text{ in}^3$.
- Choice B is correct.** **(6.G.A.3)** The parallel sides are at $y = 2$ and $y = 6$. Height = $6 - 2 = 4$ units.
- Choice C is correct.** **(6.G.A.4)** Total surface area = (area of two triangular bases) + (area of three rectangles) = $2(20) + 30 + 40 + 50 = 40 + 120 = 180 \text{ cm}^2$.
- The correct answer is 15%.** **(6.RP.A.3c)** Percent discount is $\frac{30}{200} = 0.15 = 15\%$.
- Choice B is correct.** **(6.G.A.1)** Using $72 = \frac{1}{2}(15 + 9) \times h = 12h$, so $h = 6 \text{ cm}$.
- Choice B is correct.** **(6.G.A.1)** Area of a trapezoid = $\frac{1}{2}(b_1 + b_2) \times h = \frac{1}{2}(8 + 8) \times 4 = \frac{1}{2} \times 16 \times 4 = 32$ square units.
- The correct answer is 32.** **(6.RP.A.3)** Unit cost: $8 \div \frac{1}{4} = 8 \times 4 = 32$ dollars per gallon.
- Choice A is correct.** **(6.NS.C.8)** Translate left by subtracting from x : $3 - 4 = -1$. Translate down by subtracting from y : $5 - 2 = 3$. So $A' = (-1, 3)$.
- Choice A is correct.** **(6.RP.A.3)** The box spans from Q1 to Q3, which is the IQR = $60 - 30 = 30$. This represents the middle 50% of the data.
- Choice C is correct.** **(6.NS.C.7d)** The flour amount doubled from 3 cups to 6 cups. Keep the same ratio by doubling the eggs too: $2 \times 2 = 4$ eggs.
- Choice B is correct.** **(6.EE.C.9)** Total: $\$500 + \$250 + \$150 + \$100 = \$1000$.
- The correct answer is The constant of proportionality is 4, and the cost per unit is \$4.** **(6.RP.A.3a)** A is correct because $k = \frac{8}{2} = 4$. B is correct because the cost per unit is \$4. The equation is $y = 4x$, so Choice C is false; Choice D is false because the graph passes through (0,0); Choice E gives the wrong unit rate.
- Choice D is correct.** **(6.RP.A.3)** Actual side: $2 \times 10 = 20$ feet. Area: $20 \times 20 = 400 \text{ sq ft}$.
- Choice C is correct.** **(6.NS.A.1)** $\frac{5}{6} \div \frac{1}{12} = \frac{5}{6} \times 12 = \frac{60}{6} = 10$.
- Choice A is correct.** **(6.NS.B.2)** Verification: $15 \times 374 = 5,610$. The worker's answer is correct with no error.
- Choice A is correct.** **(6.NS.B.3)** All three are equivalent: $0.5 = 0.50 = 0.500 = \frac{1}{2}$. Trailing zeros do not change the value.
- Choice C is correct.** **(6.NS.B.4)** Factors of 28: 1, 2, 4, 7, 14, 28. Factors of 42: 1, 2, 3, 6, 7, 14, 21, 42. Common factors: 1, 2, 7, 14. GCF is 14.



Hi, Math Champion!

◇ You trained hard! 4 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.

Jay Daie

Your Math Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

4 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

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

WHAT YOU'LL 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 with clear explanations and meaningful practice.



Test Confidence

Familiarize 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

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



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