

Nevada

Smarter Balanced

GRADE 6 MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



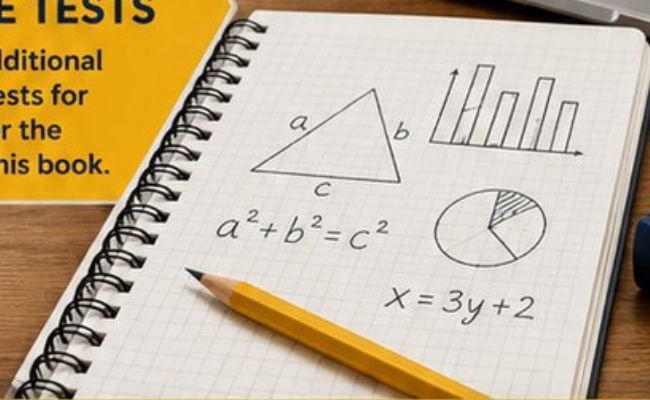
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



5 Nevada Smarter Balanced Grade 6 Math Practice Tests

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



Five 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 five 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 five-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 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	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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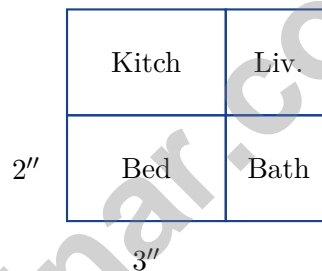
★ Practice Test 1	_____	14
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- 1) A worker saves 15% of her salary. If she saves \$180 per month, what is her monthly salary?

Savings: 15% =\$180	Rest = 85%
---------------------------	------------

Total Salary = ?

- A. \$1000 C. \$1400
 B. \$1800 D. \$1200
- 2) Below is a floor plan of a small house with a scale of 1 inch = 8 feet.



What is the actual length of the bedroom (shown as 3 inches in the drawing)?

- A. 16 feet C. 24 feet
 B. 20 feet D. 32 feet
- 3) Which pair of statements both describe the same ratio?
- Statement X: The ratio of first part to second part is 6 : 4.
- Statement Y: For every 3 units of the first part there are 2 units of the second part.

- A. Yes, they describe the same ratio. C. They cannot be compared.
 B. No, they describe different ratios. D. Only Statement X is a valid ratio.



4) Keisha uses a debit card to purchase a video game for \$45. What will happen to her bank account?

- A. The bank lends her \$45 C. She earns \$45 in interest
 B. The balance decreases by \$45 D. The balance increases by \$45

5) The distance d traveled by a jogger in t minutes is shown in the table.

Time (min)	5	10	15	20
Distance (mi)	0.5	1	1.5	2

What is the jogger's speed in miles per minute?

- A. 0.05 miles per minute C. 0.2 miles per minute
 B. 0.5 miles per minute D. 0.1 miles per minute

6) Which of the following ratios is in simplest form?

- A. 8 : 12 C. 10 : 15
 B. 6 : 9 D. 5 : 7

7) A car travels 225 miles on 9 gallons of gas. What is the fuel efficiency in miles per gallon?

- A. 20 miles per gallon C. 25 miles per gallon
 B. 22 miles per gallon D. 45 miles per gallon



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8) Two soccer teams buy water bottles for practice. Compare the unit prices.

Team	Quantity	Total Cost
Team A	30 bottles	\$45.00
Team B	25 bottles	\$35.00

Which team got the better unit price per bottle?

- A. Team A at \$1.50/bottle C. Team B at \$1.40/bottle
 B. Team A at \$1.40/bottle D. Team B at \$1.30/bottle

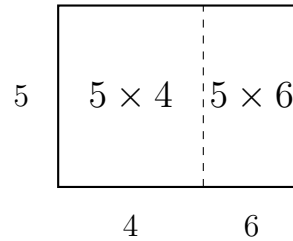
9) At a party, the ratio of sodas to juices is 5 : 3. If there are 20 sodas, how many juices are there?

Sodas	Juices
5	3
10	6
20	?

- A. 10 C. 14
 B. 16 D. 12

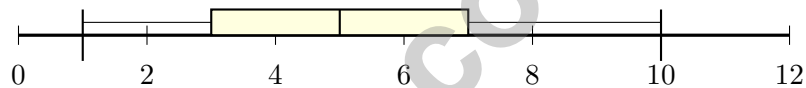


1) The area model below represents a factored sum. What is the factored form?



- A. $5(4 + 6) = 50$ C. $(4 + 6)(5) = 50$
 B. $4(5 + 6) = 44$ D. $5 \times 10 = 50$

2) Use the box plot below to determine which statement is true:



- A. $Q_1 = 3$, median = 5, $Q_3 = 7$ C. The IQR is 4.
 B. Min = 1, $Q_1 = 5$, median = 7 D. The range is 10.

3) A scientist records water temperature ($^{\circ}\text{C}$) in two lakes over 10 days:

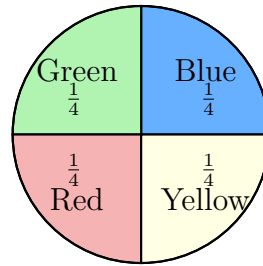
Lake	Mean	Median
Lake A	20	20
Lake B	20	18

What can be inferred about the two lakes?

- A. Lake A has some very warm days pulling the mean up C. Lake B has some unusually warm days
 B. Lake B is more stable D. Both lakes have identical temperature patterns



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4)

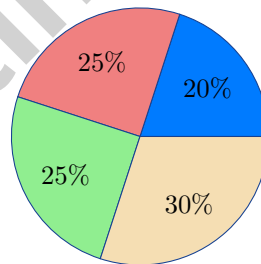
The spinner above is divided into sections with the labeled probabilities. What is the probability of spinning blue or red?

- A. $\frac{1}{4}$
 B. $\frac{3}{8}$

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

5) A student records the number of minutes spent on homework: 24, 31, 28, 35, 29, 32, 26. Arranging in a stem-and-leaf plot, the data spans:

- A. One stem (20s) C. Three stems
 B. Two stems (20s and 30s) D. Cannot determine

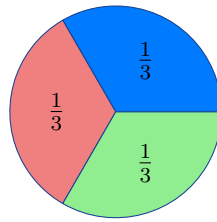


6)

If the total is 200 items, how many items are in the 20% section?

- A. 40 C. 50
 B. 30 D. 60





1)

A school has 450 students. The circle graph shows grade distribution. If $\frac{1}{3}$ are 6th graders, how many are 6th graders?

- A. 120 C. 100
 B. 180 D. 150

2) Find the median of 2, 5, 8, 11, 14, 17.

- A. 9.5 C. 11
 B. 8 D. 10

3) A recipe calls for between 200 mL and 300 mL of water. The range of acceptable volumes is:

- A. 50 mL C. 200 mL
 B. 500 mL D. 100 mL

4) The five-number summary for test scores is: min = 42, $Q_1 = 68$, median = 76, $Q_3 = 84$, max = 95. How many points separate Q_1 from Q_3 ?

- A. 8 C. 26
 B. 16 D. 53



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 five 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.EE.C.9)** If 15% of salary is \$180, then salary = $\$180 \div 0.15 = \1200 .
- 2) **Choice C is correct.** **(6.RP.A.3)** Use the scale: 3 inches \times 8 feet/inch = 24 feet.
- 3) **Choice A is correct.** **(6.RP.A.3)** Simplify 6 : 4 by dividing both parts by 2 to get 3 : 2. Statement Y says the same thing in words, so the two statements match.
- 4) **Choice B is correct.** **(6.NS.C.7d)** A debit card draws directly from her bank account, reducing the balance by the purchase amount. Credit cards defer payment (she borrows); interest is earned on savings, not debit purchases; and balances don't increase from purchases.
- 5) **Choice D is correct.** **(6.EE.C.9)** Speed = $\frac{\text{distance}}{\text{time}} = \frac{1 \text{ mi}}{10 \text{ min}} = 0.1$ miles per minute.
- 6) **Choice D is correct.** **(6.RP.A.1)** A ratio is in simplest form when the two numbers have no common factor greater than 1. The numbers 5 and 7 share no common factor except 1, so 5 : 7 is already simplified.
- 7) **Choice C is correct.** **(6.RP.A.3d)** Divide distance by gallons: $225 \div 9 = 25$ miles per gallon.
- 8) **Choice C is correct.** **(6.RP.A.3b)** Team A: $\$45.00 \div 30 = \$1.50/\text{bottle}$. Team B: $\$35.00 \div 25 = \$1.40/\text{bottle}$. Team B has the lower unit price.
- 9) **Choice D is correct.** **(6.RP.A.3)** The ratio is 5 : 3. When sodas are 20 (multiply by 4), juices are $3 \times 4 = 12$.
- 10) **Choice A is correct.** **(6.RP.A.3a)** The vertical axis is scaled in groups of 50 miles. So 50 miles is shown as 1, 100 miles as 2, and 150 miles as 3, giving the points (1, 1), (2, 2), and (3, 3).
- 11) **The correct answer is 5.** **(6.SP.B.5)** Subtract the ranges: $15 - 10 = 5$.
- 12) **Choice D is correct.** **(6.RP.A.3c)** Multiply the decimal by 100: $0.72 \times 100 = 72\%$.
- 13) **Choice D is correct.** **(6.RP.A.3c)** First shirt: \$40. Second shirt at 50% off: $0.50 \times 40 = 20$. Total: $\$40 + \$20 = \$60$.
- 14) **Choice A is correct.** **(6.RP.A.3)** 6 : 9 simplifies by dividing both by 3: $6 \div 3 = 2$ and $9 \div 3 = 3$, giving 2 : 3.
- 15) **Choice D is correct.** **(6.RP.A.3d)** Multiply: $3 \times 1000 = 3000$ meters.
- 16) **The correct answer is 20.** **(6.NS.B.3)** Expected number of spins = $0.2 \times 100 = 20$ times.
- 17) **Choice C is correct.** **(6.NS.C.7d)** The relationship is proportional because the ratio visits/days is constant: $100/1 = 200/2 = 300/3 = 100$. A constant increase alone is not enough to prove proportionality, but the constant ratio confirms it here.
- 18) **Choice D is correct.** **(6.NS.A.1)** $\frac{3}{5} \times 2 = \frac{6}{5}$.
- 19) **The correct answer is 0.** **(6.SP.B.4)** Each value appears once, so there are no modes.
- 20) **Choice A is correct.** **(6.NS.B.2)** Since $5,200 \div 13 = 400$, adding 13 to the dividend gives $5,213 \div 13 = 401$ exactly.
- 21) **The correct answer is The box shows the middle 50% (from Q_1 to Q_3), and the whiskers extend to min and max.** **(6.RP.A.1)** B is correct: the box spans from Q_1 to Q_3 , the middle 50% of the data. E is correct: the whiskers extend out to the minimum and maximum. A is wrong because the median splits the data by count, not necessarily at the numerical center. C is wrong because IQR is $Q_3 - Q_1$, not $\text{max} - \text{min}$. D is wrong because Q_1 is at most equal to the median, not strictly below it (they can be equal when many values cluster at the lower end).
- 22) **Choice A is correct.** **(6.NS.B.3)** $6 \times 8 = 48$. We have $2 + 1 = 3$ decimal places total, so 0.048 is correct.
- 23) **Choice A is correct.** **(6.NS.B.4)** $30 = 2 \times 15 = 2 \times 3 \times 5$. The prime factors are 2, 3, 5. Option B uses 15, which is composite; C uses 10, which is composite; D gives prime factorization of 12.
- 24) **Choice A is correct.** **(6.NS.B.4)** Distributive property: $9(3 + 4) = 9 \cdot 3 + 9 \cdot 4 = 27 + 36 = 63$. Choice A shows the expanded form.
- 25) **Choice D is correct.** **(6.NS.C.7c)** A: $|-6| = 6$. B: opposite of -6 is 6. C: $|6| = 6$. D: opposite of 6 is -6 . Options A, B, C all equal 6; D equals -6 .
- 26) **Choice B is correct.** **(6.NS.C.6c)** The midpoint between -2 and 2 is found by taking the average: $\frac{-2+2}{2} = 0$.



Star Player Pep Talk

Hi, Star Player!

◇ 5 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 5 tests. It's real now! ★

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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

Jay Daie

Your Math Coach

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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