

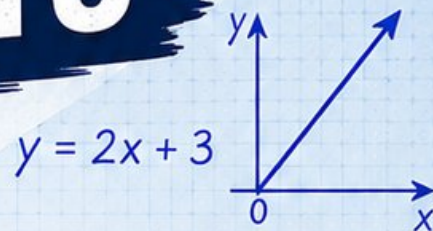
3 Nevada

Smarter Balanced

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

36% of 150 = ?



3 | PRINTED TESTS



2 | ONLINE TESTS



Build Confidence



Master Key Math Skills



Answer Explanations for Every Question



Test-Taking Strategies That Work

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

3 Nevada Smarter Balanced Grade 6 Math Practice Tests

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

$436 + 289$ $A = 24$

1 2 3

3×10 $\frac{3}{4}$

complete Nevada practice rounds

Three 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!

Three focused rounds using desert-sharp review

This book gives you three 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 three-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?

Three Smarter Balanced tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
Answer Pages	Compact keys and explanations that show why each answer works.

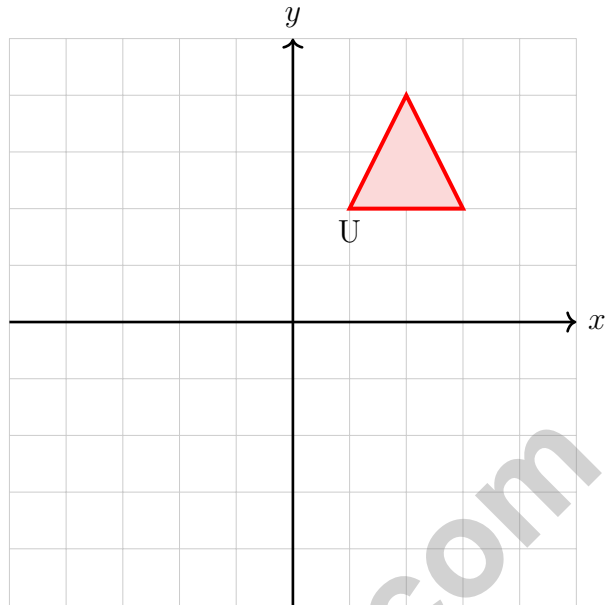
The tests are mixed on purpose. Desert-sharp review means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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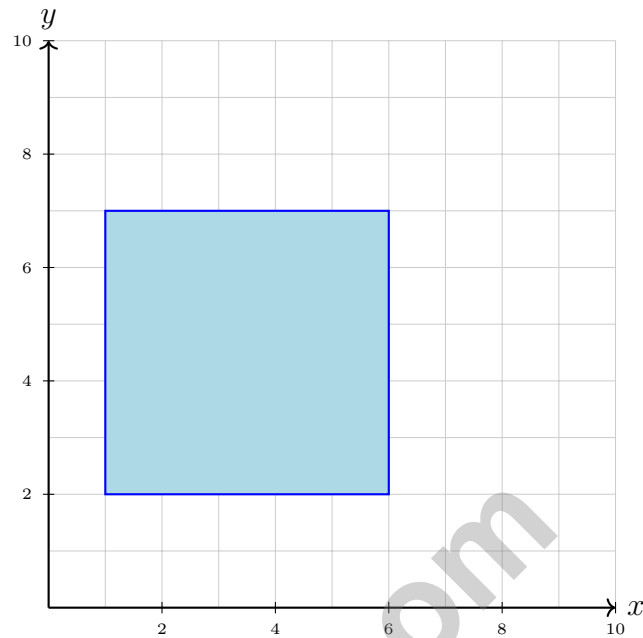
1)

A triangle has vertices at $(1, 2)$, $(3, 2)$, and $(2, 4)$. If it is reflected over the x -axis, what will be the image of $(1, 2)$?

 A. $(1, -2)$ C. $(1, 2)$ B. $(-1, 2)$ D. $(-1, -2)$

2) Marcus earns \$250 per week. He wants to save 20% of his earnings. How much will he save in one week?

 A. \$20 C. \$70 B. \$100 D. \$50



3)

What is the area of the rectangle?

- A. 20 square units C. 30 square units
 B. 25 square units D. 35 square units

4) Which statement about a misleading graph is TRUE?

- A. The data is always incorrect C. All bar graphs are inherently misleading
 B. Misleading graphs always have negative intent D. The visual display exaggerates or downplays differences



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5) A gym charges based on the number of personal training sessions. The graph shows points (4, 160) and (6, 240) on a straight line through the origin.

What is the cost per session?

- A. \$20 per session C. \$40 per session
 B. \$30 per session D. \$80 per session

6) Write $\frac{4}{5}$ as a decimal and then as a percent.

- A. 0.45 and 45% C. 0.04 and 4%
 B. 1.25 and 125% D. 0.8 and 80%

7) A book is marked down 30% from its original price of \$18. What is the sale price?

- A. \$5.40 C. \$12.60
 B. \$8.40 D. \$13.60

8) A model train is built at a scale of 1 : 50. If the model is 8 inches long, how many inches long is the real train?

- A. 200 C. 400
 B. 300 D. 500

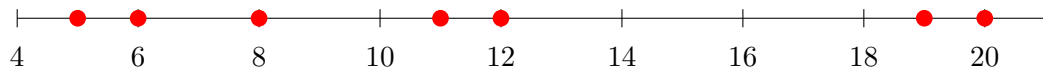
9) In a student club, the ratio of 6th graders to 7th graders is 4 : 6. If there are 12 sixth graders, how many seventh graders are in the club?



- 1) A trapezoid has bases of 10 cm and 6 cm. If the area is 32 cm^2 , what is the height?
- A. 2 cm C. 4 cm
 B. 3.2 cm D. 8 cm
- 2) The diameter of a circular pond is 8 meters. What is the approximate circumference using $\pi \approx 3.14$?
- A. 12.56 meters C. 50.24 meters
 B. 100.48 meters D. 25.12 meters
- 3) Consider: "What is the average age of people in my city?"
Why is this a statistical question?
- A. Because it asks about a large group of people. C. Because it uses the word "average."
 B. Because people have different ages and data must be collected. D. Because age is a number.
- 4) For which type of distribution would the mean and median be most different?
- A. Symmetric distribution C. Highly skewed distribution
 B. Bimodal distribution D. Uniform distribution
- 5) Which value is an outlier in the data set 8, 9, 10, 11, 50?
- A. 8 C. 9
 B. 11 D. 50

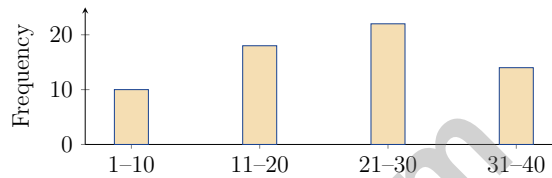


6) The data set 8, 12, 5, 19, 11, 6, 20 is displayed on a number line. What is the range?



- A. 5
- B. 12
- C. 15
- D. 20

7) A histogram is most useful for displaying data when you need to:



- A. Compare two specific values
- B. Show individual data points
- C. Display the distribution of continuous data grouped into bins
- D. Track changes over time

8) The interquartile range of a dataset is 18. If $Q_1 = 32$, what is Q_3 ?

- A. 14
- B. 32
- C. 68
- D. 50

9) A dot plot shows scores: $\{3, 5, 7, 7, 8, 8, 8, 9\}$. What is the mode?

- A. 7
- B. 3
- C. 9
- D. 8

10) A bag contains 8 marbles: 3 white, 2 black, and 3 striped. What is the probability of drawing a white or striped marble?

- A. $\frac{1}{4}$
- B. $\frac{3}{8}$
- C. $\frac{1}{2}$
- D. $\frac{3}{4}$



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1) A water tank fills at a rate of 8 gallons per minute. If m is the number of minutes and g is the total gallons filled, write an equation.

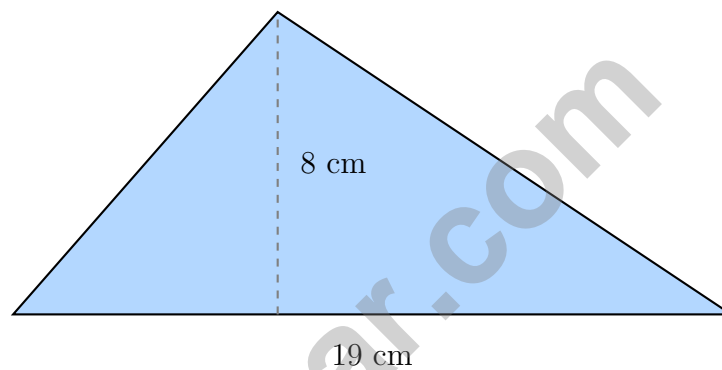
A. $m = 8g$

C. $g = m + 8$

B. $m = g + 8$

D. $g = 8m$

2) An acute triangle has a base of 19 centimeters and a height of 8 centimeters. What is its area?



A. 27 cm^2

C. 76 cm^2

B. 38 cm^2

D. 152 cm^2

3) On a number line, point A is at -3 and point B is at 4 . What is the distance between the two points?



- 4) A point is located on the negative x -axis. What is its y -coordinate?

- 5) A shipping container is 10 m long, 4 m wide, and 3 m high. How much volume does it have?

- A. 17 m^3 C. 60 m^3
 B. 30 m^3 D. 120 m^3

- 6) A vertical segment goes from $(5, 2)$ to $(5, 8)$. What is its length?

- A. 4 units C. 7 units
 B. 5 units D. 6 units

- 7) A triangular prism has an equilateral triangular base with side length 6 cm. Each rectangle connecting the triangles has dimensions $6 \text{ cm} \times 8 \text{ cm}$. What is the total surface area? (Equilateral triangle area: $\frac{\sqrt{3}}{4} \times 6^2 \approx 15.59 \text{ cm}^2$, or use 15.6 cm^2 .)

- A. 31.2 cm^2 C. 175.2 cm^2
 B. 144 cm^2 D. 190 cm^2

- 8) A trapezoid has bases of 20 m and 8 m with a height of 6 m. What is the area?

- A. 28 m^2 C. 84 m^2
 B. 56 m^2 D. 168 m^2



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& answers

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.



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& answers

Nevada Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice A is correct.** (6.NS.C.8) Reflection over the x -axis negates the y -coordinate: $(1, 2) \rightarrow (1, -2)$.
- Choice D is correct.** (6.NS.C.7d) 20% of \$250 is $0.20 \times 250 = \$50$.
- Choice B is correct.** (6.G.A.1) Width: $6 - 1 = 5$ units. Height: $7 - 2 = 5$ units. Area = $5 \times 5 = 25$ square units.
- Choice D is correct.** (6.RP.A.3) Misleading graphs use visual techniques (truncated axes, 3D effects, non-uniform scales) to distort perception. The data itself may be correct, but the visual misrepresents it.
- Choice C is correct.** (6.RP.A.3a) The unit rate is $\frac{\$160}{4 \text{ sessions}} = \40 per session. Verify: $\frac{\$240}{6} = \40 per session ✓.
- Choice D is correct.** (6.RP.A.3c) $\frac{4}{5} = \frac{80}{100} = 0.8 = 80\%$.
- Choice C is correct.** (6.RP.A.3c) 30% of \$18 = $0.30 \times 18 = \$5.40$. Sale price is $\$18 - \$5.40 = \$12.60$.
- Choice C is correct.** (6.RP.A.3) At a scale of 1 : 50, the real object is 50 times larger. $8 \times 50 = 400$ inches.
- The correct answer is 18.** (6.RP.A.3) The ratio of sixth graders to seventh graders is 4 : 6, which simplifies to 2 : 3. If 2 parts are 12 students, each part is 6, so seventh graders are $3 \times 6 = 18$.
- Choice A is correct.** (6.RP.A.3d) Divide: $2500 \div 1000 = 2.5$ kg. The student's error of multiplying would give an absurdly large number.
- Choice D is correct.** (6.NS.C.7d) This is not proportional because the cost per notebook is not constant. For example, 1 notebook costs \$0, but 2 notebooks cost \$5, so the ratio of cost to notebooks changes.
- Choice B is correct.** (6.EE.C.9) Remainder: $100\% - 40\% - 35\% - 15\% = 10\%$ of \$360 = $0.10 \times 360 = \$36$.
- Choice D is correct.** (6.RP.A.3) Multiply: $6 \text{ cm} \times 0.5 \text{ m/cm} = 3 \text{ m}$.
- Choice C is correct.** (6.NS.A.1) Friendly reminder: when you divide by a fraction, you can multiply by its reciprocal ("flip" the divisor and multiply). $\frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times \frac{2}{1} = \frac{6}{4}$, which simplifies to $\frac{3}{2}$, or $1\frac{1}{2}$.
- Choice C is correct.** (6.NS.B.2) $5,280 \div 16 = 330$. Verify: $16 \times 330 = 5,280$.
- Choice A is correct.** (6.NS.B.3) Roughly, $8 \times 4 = 32$ since 7.9 is near 8 and 4.2 is near 4. That ballpark is what estimation is for—save the exact digits for when you need them.
- The correct answer is 55 miles per hour.** (6.RP.A.3d) Divide miles by hours: $55 \div 1 = 55$ miles per hour (or $165 \div 3 = 55$).
- The correct answer is 12 gal/min.** (6.RP.A.3b) $144 \div 12 = 12$ gallons per minute.
- Choice A is correct.** (6.NS.B.4) This is a GCF problem. The GCF of 18 and 24 is 6. So she can make 6 bouquets, with 3 red and 4 white roses in each.
- The correct answer is Girls to boys is 10 : 15 = 2 : 3 (Choice A is correct). Boys to total is 15 : 25 = 3 : 5 (Choice B is correct).** (6.RP.A.1) Choice A is correct because girls to boys is 10 : 15, which simplifies to 2 : 3. Choice B is correct because boys to total is 15 : 25, which simplifies to 3 : 5. The other choices either flip the order, swap which group is named first, or use the wrong total (10 girls out of 25 students is 2 : 5, not 1 : 3).
- Choice C is correct.** (6.NS.B.4) Factors of 10: 1, 2, 5, 10. Factors of 15: 1, 3, 5, 15. Common factors: 1, 5. The GCF is 5.
- Choice B is correct.** (6.NS.C.5) Starting at 0: $+50 - 35 + 20 = 35$ points.
- Choice C is correct.** (6.NS.C.7c) Check each: A: $2 = 2$ (equal). B: $4 = 4$ (equal). C: $3 \neq 5$ (NOT equal). D: $6 = 6$ (equal).
- Choice C is correct.** (6.NS.C.6c) $|-1.2| = 1.2$ and $|1.3| = 1.3$ are not equal, so they are not equidistant from zero.
- Choice B is correct.** (6.NS.C.8) Reflect $(6, -4)$ across the x -axis: $(6, 4)$. Then reflect across the y -axis: $(-6, 4)$.
- Choice A is correct.** (6.NS.C.7d) On a number line, more negative numbers are less. $-3 < -2.5 < 0 < \frac{1}{4} < 1.75$.
- Choice B is correct.** (6.NS.C.8) Same y -coordinate (1): $|7 - 2| = 5$ units.



Hi, Math Athlete!

◇ 3 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 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:

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 - 2 Online Practice Tests
-  Detailed Answer Explanations

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

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Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



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Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

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- ✓ 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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