

6

Washington

Smarter Balanced

GRADE

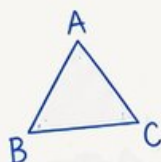
6

MATH

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

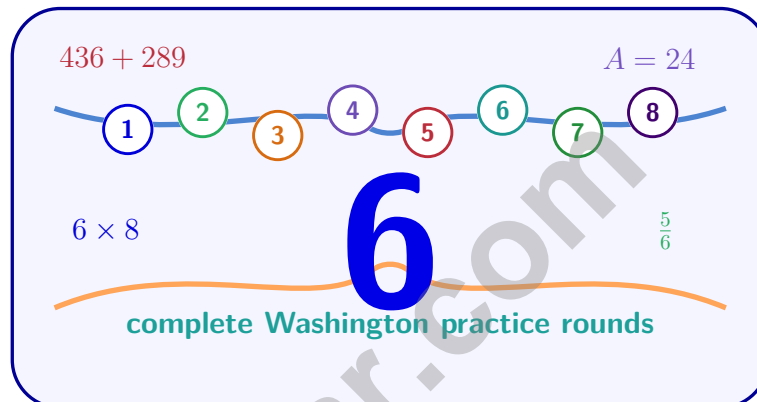


SUCCEED

Build confidence and achieve your best

6 Washington Smarter Balanced Grade 6 Math Practice Tests

Standards-Aligned Evergreen Review Thinking for Smarter Balanced Assessment Consortium



Six complete 40-question Grade 6 practice rounds for Smarter Balanced, built for evergreen review thinking 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, Washington Math Explorer!

Eight focused rounds using evergreen review thinking

This book gives you six full Grade 6 practice tests for Smarter Balanced. Each round uses evergreen trails, water crossings, and careful data reading as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Washington Practice Promise

Keep the path visible: read the graph, label the work, and check the answer in context.

Read

Plan

Check

How to Use This Book

A six-session routine for evergreen review thinking

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Washington review rhythm: Practice, review, and return with one clearer habit for the next round.



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. Evergreen review thinking 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) Use the table to answer the question:

Term	Coefficient
$11x$	11
$-5y$?
z	?

What is the sum of the two missing coefficients?

- A. -6 C. 4
 B. -4 D. 6

2) Apples cost \$2 per pound plus a \$3 fee. What is the total cost for 4 pounds?

3) Which value of x makes $x + 8 = 15$ true?

- A. $x = 23$ C. $x = 8$
 B. $x = 15$ D. $x = 7$

4) A student says that $-\frac{3}{8}$ is located to the right of $-\frac{1}{8}$ on a number line. Is the student correct?

- A. Yes, because $-3 > -1$ D. No, because the fractions have different denominators
 B. Yes, because $\frac{3}{8} < \frac{1}{8}$
 C. No, because $-\frac{3}{8}$ is to the left of $-\frac{1}{8}$

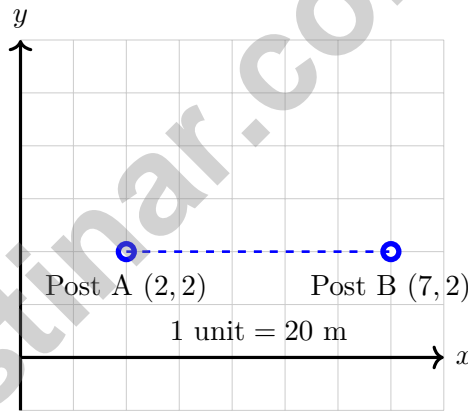


5) A right triangle has legs of 11 inches and 18 inches. Calculate the area of the triangle.

6) If a point is in Quadrant II, which of the following must be true?

- | | |
|---|---|
| <input type="checkbox"/> A. Both coordinates are positive
<input type="checkbox"/> B. Both coordinates are negative
<input type="checkbox"/> C. The x -coordinate is negative and y -coordinate is positive | <input type="checkbox"/> D. The x -coordinate is positive and y -coordinate is negative |
|---|---|

7)



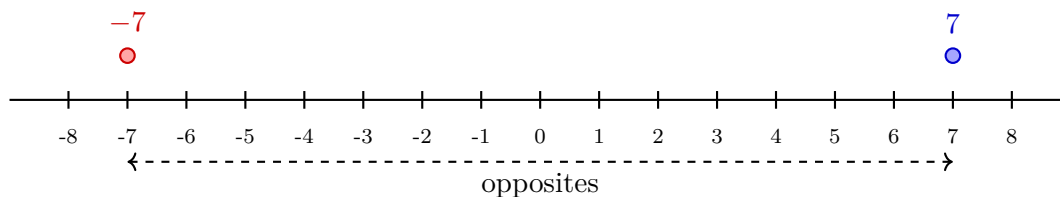
Two fence posts are located at $(2, 2)$ and $(7, 2)$ on a map. If each unit equals 20 meters, what is the actual distance between the posts?

- | | |
|---|--|
| <input type="checkbox"/> A. 80 m
<input type="checkbox"/> B. 140 m | <input type="checkbox"/> C. 120 m
<input type="checkbox"/> D. 100 m |
|---|--|



Scan me!
For more practice
& answers

8) Which pair of integers on the number line sums to 0?



- A. 5 and 5 C. -3 and -3
 B. 4 and -2 D. -7 and 7

9) Evaluate: $\frac{32}{-4}$

- A. 8 C. 28
 B. -8 D. 36

10) A bank account history: Started with \$0, gained \$150 from a paycheck, spent \$30 on groceries, spent \$45 on gas, then received a rebate of \$20. What is the final balance?

- A. $-\$95$ C. \$55
 B. \$95 D. \$245

11) Evaluate: $20 - (4 + 1)^2 + 3$

- A. -2 C. 8
 B. -1 D. 18

12) Evaluate $4a - 3b$ when $a = 5$ and $b = 2$.

- A. 10 C. 17
 B. 26 D. 14



- 6) A bakery made a stem-and-leaf plot of daily cookie sales: Stem 2: Leaf 1, 3, 5, 8
Stem 3: Leaf 0, 4, 7 Stem 4: Leaf 2, 6

What is the MODE (most frequent value) of the cookie sales?

- A. 30 C. 42
 B. 25 D. No mode
- 7) Is “How tall is my dog?” a statistical question?

8)

Item	Quantity
Apples	15
Bananas	25

What ratio correctly compares bananas to the total fruit in simplest form?

- A. 5 : 3 C. 15 : 25
 B. 25 : 40 D. 5 : 8
- 9) A recipe calls for 3 cups of flour and 9 cups of sugar. What is the simplified ratio of flour to sugar?
- A. 1 : 3 C. 1 : 9
 B. 3 : 9 D. 9 : 3



Scan me!
For more practice
& answers

- 1) A vehicle travels at a constant speed. The graph shows the relationship between time and distance. If the point (2, 110) is on the line (meaning 2 hours → 110 miles), which equation models this relationship?
- A. $d = 50t$ C. $d = 110t$
 B. $d = 55t$ D. $d = 220t$
- 2) A shop sells pens at the ratio of ballpoint to gel pens of 8 : 5. If the shop has 40 ballpoint pens, how many gel pens does it have?
- A. 16 gel pens C. 64 gel pens
 B. 32 gel pens D. 25 gel pens
- 3) At a car dealership, for every 7 cars sold, 2 are red. Which statement describes the part-to-whole ratio of red cars to all cars sold?
- A. The ratio of red cars to non-red cars is 2 : 5. C. The ratio of all cars sold to red cars is 7 : 2.
 B. The ratio of red cars to all cars sold is 2 : 9. D. The ratio of red cars to all cars sold is 2 : 7.
- 4) A factory makes 504 widgets in 7 days. What is the rate in widgets per day?
- A. 60 widgets per day C. 72 widgets per day
 B. 70 widgets per day D. 511 widgets per day
- 5) A grocery bill shows 8 apples for \$4.80. A shopper claims the unit price is \$4.80 per apple. What is wrong with this answer?
- A. The shopper used the total cost instead of dividing by quantity C. The shopper used the wrong number of apples
 B. The shopper forgot to convert to cents D. The answer is actually correct



Scan me!
For more practice
& answers

- 6) Two students see the same ratio table. Student 1 says the ratio is 2 : 3. Student 2 says the ratio is 4 : 6. Who is correct?

Cats	Dogs
4	6
8	12

- A. Student 1 only
 B. Student 2 only
 C. Both are correct
 D. Neither is correct
- 7) Class A has range 10 and Class B has range 15. By how much is Class B's range greater?

- 8) A garden is g feet long. After removing a section, it is now 6 feet shorter. Which expression shows the new length?

- A. $g + 6$
 B. $g - 6$
 C. $6g$
 D. $\frac{g}{6}$
- 9) If 60 out of 200 students walk to school, what percent walk?
- A. 6%
 B. 20%
 C. 30%
 D. 60%



Washington Smarter Balanced Practice Test Answer Keys

How to use this Washington 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 evergreen review thinking
3. rework the problem before reading the full explanation, using this reminder:
Keep the path visible: read the graph, label the work, and check the answer in context.

A calm Washington correction routine turns every missed item into useful practice. Practice, review, and return with one clearer habit for the next round.



Washington Practice Test Answers and Explanations

Review the six printed Smarter Balanced tests with observant, steady, and ready for the next trail habits.

Practice Test 1 Answers and Explanations

- Choice B is correct.** (6.EE.A.2b) The coefficient of $-5y$ is -5 . The coefficient of z (which is $1z$) is 1 . Sum: $-5+1 = -4$.
- The correct answer is 11.** (6.EE.B.6) The total is $2 \times 4 + 3 = 11$.
- Choice D is correct.** (6.EE.B.5) Check: $7 + 8 = 15$ is true. Subtract 8 from both sides.
- Choice C is correct.** (6.NS.C.6c) On a number line, $-\frac{3}{8} = -0.375$ is to the left of $-\frac{1}{8} = -0.125$. The student confused the order of negative numbers.
- The correct answer is 99.** (6.G.A.1) $A = \frac{1}{2} \times 11 \times 18 = 99 \text{ in}^2$.
- Choice C is correct.** (6.NS.C.8) By definition, Quadrant II is in the upper left, where $x < 0$ and $y > 0$.
- Choice D is correct.** (6.NS.C.8) Distance on map: $|7 - 2| = 5$ units. Actual distance: $5 \times 20 = 100$ meters.
- Choice D is correct.** (6.NS.B.3) The integers -7 and 7 are opposites, so $-7 + 7 = 0$.
- Choice B is correct.** (6.NS.B.3) Positive divided by negative is negative: $\frac{32}{-4} = -8$.
- Choice B is correct.** (6.EE.A.3) Sequence of transactions: $0 + 150 - 30 - 45 + 20 = 150 - 75 + 20 = \95 .
- Choice A is correct.** (6.EE.A.1) Parentheses first: $4 + 1 = 5$. Exponent: $5^2 = 25$. Then subtract and add: $20 - 25 = -5$, then $-5 + 3 = -2$.
- Choice D is correct.** (6.EE.A.2c) Substitute and compute: $4(5) - 3(2) = 20 - 6 = 14$.
- Choice A is correct.** (6.EE.A.3) Distribute: $2(4x + 1) = 2 \cdot 4x + 2 \cdot 1 = 8x + 2$.
- Choice C is correct.** (6.EE.B.8) "No greater than 32" means $t \leq 32$, which includes 32 itself. But "below 32" means $t < 32$, excluding 32, so C is not correct.
- The correct answer is 5.** (6.G.A.4) $SA = 2LW + 2LH + 2WH = 2(11)(5) + 2(11)H + 2(5)H = 110 + 32H$. Since $270 = 110 + 32H$, $160 = 32H$, so $H = 5$ cm.
- Choice D is correct.** (6.EE.B.8) A filled circle at -1 with an arrow pointing left indicates x equals -1 or is less than -1 .
- Choice B is correct.** (6.EE.C.9) The line goes from approximately $(1, 72)$ to $(5, 100)$. Slope = $\frac{100-72}{5-1} = \frac{28}{4} = 7$ points per hour.
- Choice D is correct.** (6.G.A.2) $V = 6 \times 4 \times 2 = 24 \times 2 = 48 \text{ in}^3$.
- Choice B is correct.** (6.G.A.3) The top side goes from $(2, 6)$ to $(5, 6)$, both at $y = 6$. Distance is $5 - 2 = 3$ units.
- The correct answer is Zero serves as a reference point by marking the origin. Negative numbers are to the left (A is correct). Opposites are equidistant from zero (C is correct). Distance from zero determines position relative to the reference point (E is correct).** (6.NS.C.5) Choice A correctly identifies the spatial arrangement with zero as origin. Choice C correctly describes opposites as equidistant from zero (the reference). Choice E correctly explains how distances from zero locate a number. Choice B is about comparison, not zero's role as reference. Choice D is about direction but doesn't specifically explain zero's reference-point function.
- Choice A is correct.** (6.RP.A.1) Circle 1: $A \approx 3.14 \times 2^2 = 3.14 \times 4 = 12.56 \text{ in}^2$. Circle 2: $A \approx 3.14 \times 4^2 = 3.14 \times 16 = 50.24 \text{ in}^2$. Difference: $50.24 - 12.56 = 37.68 \text{ in}^2$.
- Choice C is correct.** (6.SP.A.2) A statistical question anticipates variability and is answered by collecting data. Homework time varies across students, so that question is statistical; the others have a single fixed answer.
- Choice B is correct.** (6.SP.B.5c) Data: 1, 2, 2, 3, 3, 3, 4, 4, 5. The median (middle of 9 values) is the 5th value: 3.
- Choice C is correct.** (6.SP.B.4) Total in fifth bin: $250 - (45 + 60 + 75 + 40) = 250 - 220 = 30$ data points.
- Choice C is correct.** (6.RP.A.1) Range = max - min = $40 - 5 = 35$.
- Choice D is correct.** (6.SP.B.5) With 10 values, Q1 = median of lower 5 $\{1, 2, 2, 3, 3\} = 2$. Q3 = median of upper 5 $\{3, 4, 5, 5, 6\} = 4$. IQR = $4 - 2 = 2$.



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