

# 9

# Washington Smarter Balanced

GRADE

# 6

MATH

# PRACTICE TESTS

Standards-Aligned Review  
Mixed Practice & Answer Key



## 9 PRINTED TESTS

Realistic practice to build confidence and mastery



## DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



## FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



## BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



**9 PRINTED TESTS**  
**+2 ONLINE TESTS**

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

**PRACTICE TODAY.  
SUCCEED TOMORROW.**



PRACTICE



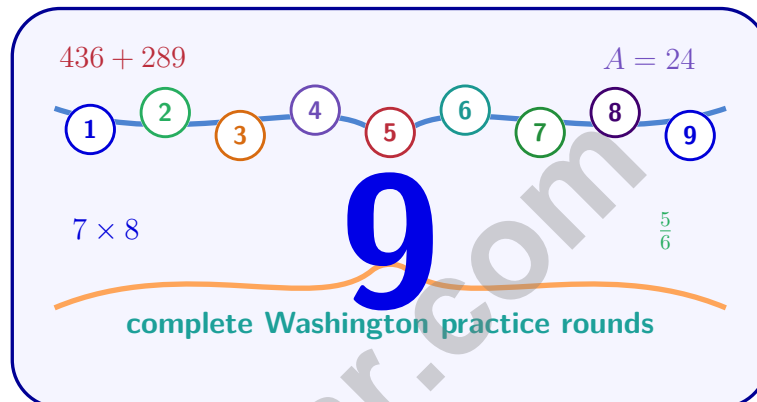
REVIEW



SUCCEED

# 9 Washington Smarter Balanced Grade 6 Math Practice Tests

*Standards-Aligned Evergreen Review Thinking for Smarter Balanced Assessment Consortium*



Nine 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!

Nine focused rounds using evergreen review thinking

This book gives you nine 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 nine-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?

Nine Smarter Balanced tests, 360 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

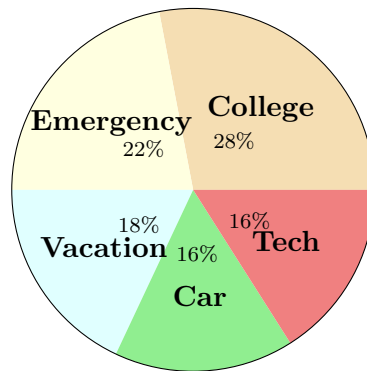
The tests are mixed on purpose. Evergreen review thinking means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!  
For more practice  
& answers

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1)

The pie chart shows savings goals. If total savings is \$5000, how much is allocated to the College fund?

- A. \$1000                       C. \$1400  
 B. \$1200                       D. \$1600

2) A classmate subtracts and writes  $9.4 - 3.8 = 5.6$ . Which statement is true?

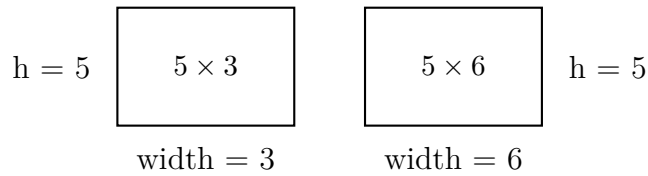
- A. The work is correct; 5.6 matches the subtraction.  
 B. Decimals cannot be subtracted unless you line up the \$ symbol.  
 C. Because  $9 > 5$ , no borrowing is allowed.  
 D. Subtracting decimals always lowers the quotient.

3) What is the GCF of 20 and 30?

- A. 2                                       C. 20  
 B. 5                                       D. 10



4) Which expression represents the total area of the two rectangles shown?



- A.  $(5 + 3)(5 + 6)$        C.  $3 + 5 + 6 + 5$   
 B.  $5(3 + 6)$        D.  $5 + 3 + 5 + 6$
- 5) Which statement correctly compares the two integers  $-6$  and  $-3$ ?
- A.  $-6 > -3$        C.  $-6 < -3$   
 B.  $-6 = -3$        D.  $-6$  and  $-3$  are opposites
- 6) What is  $\frac{5}{8} \div \frac{5}{6}$ ?
- A.  $\frac{25}{48}$        C.  $\frac{8}{6}$   
 B.  $1$        D.  $\frac{3}{4}$
- 7) Which number has an absolute value of 20?
- A. 20 only       C. Only zero  
 B.  $-20$  only       D. Both 20 and  $-20$
- 8) Which ordered pair is located in Quadrant III?
- A.  $(2, 5)$        C.  $(-4, -2)$   
 B.  $(-1, 3)$        D.  $(3, -6)$



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9) Compare  $-4$  and  $-1$  using  $<$ ,  $>$ , or  $=$ . Which symbol belongs in the box?

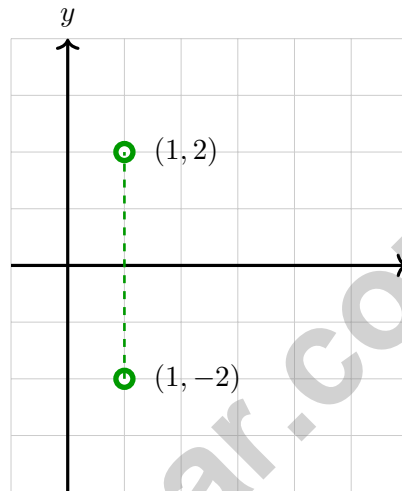
$$-4 \square -1$$

A.  $<$

C.  $=$

B.  $>$

D. Cannot be determined



10)

What is the distance between  $(1, -2)$  and  $(1, 2)$ ?

A. 3 units

C. 5 units

B. 4 units

D. 6 units

11) In the expression  $v + 15$ , the variable  $v$  represents the cost of a video game before tax. What does  $v + 15$  represent?

A. The cost of the game before tax

D. The difference between game and tax

B. The tax on the game

C. The cost of the game plus \$15



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

A. 5

C. 7

B. 6

D. 18

2) A store sells fabric by the yard. The price per yard is \$12. A customer buys 2.5 yards. If the store uses the proportional relationship  $p = 12y$ , what is the total price?

A. \$14.50

C. \$29

B. \$24

D. \$30

3) On a number line, which pair of numbers are NOT equidistant from zero?

A.  $-2.5$  and  $2.5$

C.  $-1.2$  and  $1.3$

B.  $-\frac{3}{4}$  and  $\frac{3}{4}$

D.  $-0.8$  and  $0.8$

4) Compute:  $(-4) \times (-2) \times 3$

A.  $-24$

C. 9

B.  $-9$

D. 24

5) During winter, a city's average temperature dropped from  $8^\circ$  to  $-12^\circ$  C. What was the temperature change?

A.  $-20^\circ$  C

C.  $4^\circ$  C

B.  $-4^\circ$  C

D.  $20^\circ$  C



Parentheses first

Evaluate:  $(4 + 1)^2 \times 2$

6)

What is the value after Step 1 (parentheses)?

- A.  $5^2 \times 2$ 
 C.  $5 + 1 \times 2$   
 B.  $4 \times 1 \times 2$ 
 D.  $16 \times 2$

7) A point is on the  $y$ -axis between Quadrants I and II. Which of the following could be its coordinates?

- A.  $(0, -3)$ 
 C.  $(4, 0)$   
 B.  $(0, 4)$ 
 D.  $(-4, 0)$

8) 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

9) What is the distance between the points  $(2, 3)$  and  $(2, -5)$  on the coordinate plane?

- A. 2 units
  C. 5 units  
 B. 3 units
  D. 8 units

10) Which chip model shows  $-4 + 6$ ? (Red chips =  $-1$ , Blue chips =  $+1$ )**Model A: 4 red + 6 blue****Model B: 3 red + 5 blue**

- A. Model A; answer is 2
  C. Model A; answer is 10  
 B. Model B; answer is 2
  D. Model B; answer is 8



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1) If  $? \times (-8) = 56$ , what is the missing number?

A. -7

C. 48

B. 7

D. 64

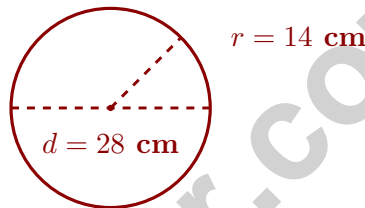
2) A histogram of test scores is skewed right. Which is most likely true?

A. The mean is much less than the median.

C. The mean is much greater than the median.

B. The mean equals the median.

D. The mode equals the mean.



3)

What is the approximate area of a circle with diameter 28 cm? Use  $\pi \approx \frac{22}{7}$ .

A.  $88 \text{ cm}^2$

C.  $616 \text{ cm}^2$

B.  $264 \text{ cm}^2$

D.  $1232 \text{ cm}^2$

4) For which type of distribution would the mean and median be most different?

A. Symmetric distribution

C. Highly skewed distribution

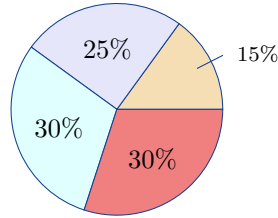
B. Bimodal distribution

D. Uniform distribution



5) Data Set A: 5, 6, 7, 8, 9 (Mean = 7, Median = 7) Data Set B: 1, 5, 7, 8, 24 (Mean = 9, Median = 7) Which statement is true?

- A. Set A is more skewed
- B. Set B has a larger outlier
- C. The means are equal
- D. Set A has a larger outlier



6)

A circle graph shows expenses for a business. If the total budget is \$4000, how much is allocated to the 15% category?

- A. \$500
- B. \$800
- C. \$700
- D. \$600

7) For 2, 4, 6, 8, 10, 12, 14, find the interquartile range.

8) Which statement about a misleading graph is TRUE?

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



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**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.**



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& answers

## Washington Practice Test Answers and Explanations

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

### Practice Test 1 Answers and Explanations

- Choice C is correct.** **(6.EE.C.9)** College:  $28\%$  of  $\$5000 = 0.28 \times 5000 = \$1400$ .
- Choice A is correct.** **(6.NS.B.3)** Stack the decimals, subtract tenths then ones (borrowing quietly if needed), and you land on 5.6—no drama needed.
- Choice D is correct.** **(6.NS.B.4)** Factors of 20: 1, 2, 4, 5, 10, 20. Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30. Common factors: 1, 2, 5, 10. GCF is 10.
- Choice B is correct.** **(6.NS.B.4)** Each rectangle has height 5. The widths are 3 and 6. Total area =  $5 \times 3 + 5 \times 6 = 5(3 + 6) = 45$ .
- Choice C is correct.** **(6.NS.C.5)** On a number line,  $-6$  is to the left of  $-3$ , so  $-6$  is less than  $-3$ . The farther left a number is, the smaller it is.
- Choice D is correct.** **(6.NS.A.1)**  $\frac{5}{8} \times \frac{6}{5} = \frac{30}{40} = \frac{3}{4}$ .
- Choice D is correct.** **(6.NS.C.7c)**  $|20| = 20$  and  $|-20| = 20$ . Both positive and negative numbers can have the same absolute value.
- Choice C is correct.** **(6.NS.C.8)** Quadrant III contains points where both coordinates are negative. The point  $(-4, -2)$  has negative  $x$  and negative  $y$ , so it is in Quadrant III.
- Choice A is correct.** **(6.NS.C.7d)**  $-4$  is further left on a number line than  $-1$ , so  $-4$  is less than  $-1$ .
- Choice B is correct.** **(6.NS.C.8)** Same  $x$ -coordinate (1):  $|2 - (-2)| = |2 + 2| = 4$  units.
- Choice C is correct.** **(6.EE.B.6)**  $v + 15$  means add  $\$15$  to the original price  $v$ .
- Choice D is correct.** **(6.EE.C.9)** In the equation  $w = 18h$ , the coefficient 18 is the constant rate (hourly pay rate in dollars per hour).
- Choice C is correct.** **(6.G.A.1)** Triangle X:  $A = \frac{1}{2} \times 12 \times 5 = 30 \text{ in}^2$ . Triangle Y:  $A = \frac{1}{2} \times 5 \times 12 = 30 \text{ in}^2$ . Both equal  $30 \text{ in}^2$ .
- Choice A is correct.** **(6.G.A.1)** Area of a triangle =  $\frac{1}{2} \times \text{base} \times \text{height} = \frac{1}{2} \times 10 \times 8 = 40$  square units.
- Choice A is correct.** **(6.NS.C.8)** Translate:  $(-4, 6) \rightarrow (-4 + 4, 6 - 3) = (0, 3)$ .
- Choice A is correct.** **(6.SP.B.5c)** IQR measures spread in the middle 50%. Set X's IQR of 15 is larger than Set Y's IQR of 8, indicating Set X has greater spread in the middle half.
- Choice C is correct.** **(6.RP.A.1)** IQR =  $Q_3 - Q_1 = 7.5 - 2.5 = 5$ .
- Choice C is correct.** **(6.NS.B.3)** Blue or yellow buttons =  $7 + 8 = 15$ . Probability =  $\frac{15}{24}$ .
- Choice A is correct.** **(6.NS.C.7d)** For a proportional relationship, when hours = 0, pay must = 0. Here, when hours = 0, pay =  $\$5$  (a fixed fee), so the relationship is not proportional. The equation is  $p = 5h + 5$ , which includes a non-zero constant term.
- Choice D is correct.** **(6.NS.C.6c)** Point Q is located at the half-tick between  $-2$  and  $-1$ , which is  $-1\frac{1}{2}$ .
- The correct answer is B and C are consistent.** **(6.RP.A.3)** B:  $3 \times 5 = 15$  km (correct). C:  $4 \times 5 = 20$  km (correct). A:  $2 \times 5 = 10$  km, not 8 (incorrect). D:  $5 \times 5 = 25$  km, not 30 (incorrect). E:  $6 \times 5 = 30$  km, not 35 (incorrect).
- Choice C is correct.** **(6.NS.B.3)** Starting balance:  $-50$ . Adding a deposit of 120:  $-50 + 120 = 70$ .
- Choice B is correct.** **(6.NS.B.3)** Positive divided by negative is negative:  $\frac{30}{-5} = -6$ .
- Choice A is correct.** **(6.EE.A.3)** Moving down from floor 5:  $5 - 7 = -2$ , which is floor  $-2$  (basement level).
- Choice A is correct.** **(6.EE.A.1)**  $2^3 = 2 \times 2 \times 2 = 8$ , and  $8 \times 3 = 24$ . Option A shows this correctly in expanded form.



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## Hi, Math Champion!

◇ Look what you did! 9 full practice tests. That's hundreds of math problems. You started as a learner. You are now a math athlete. ◇

★ **Champions know:** hard work pays off. You did the hard work. Your math skills are strong because you practiced. ★

### Champion's Stats

- **Focus:** HIGH! You stay on task.
- **Speed:** STRONG! You move at the right pace.
- **Accuracy:** SHARP! You catch your own mistakes.
- **Mindset:** CHAMPION! You believe in yourself.

**Champion tip:** on test day, walk in proud. You trained for this. You are ready!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Coach

# PRACTICE MORE. ACHIEVE MORE.

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 any test.

With 9 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.

## PERFECT FOR:

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

★ PRACTICE TODAY.  
SUCCEED TOMORROW.

## 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 math concepts aligned with standards.



### Test Confidence

Get familiar with test formats and improve accuracy.



### 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.



9 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS