

4 Washington

Smarter Balanced

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

**PRINTED
TESTS**



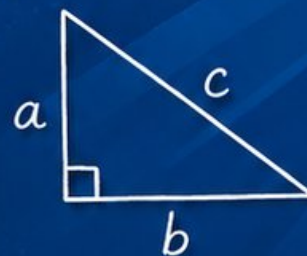
2

**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 Washington Smarter Balanced Grade 6 Math Practice Tests

Standards-Aligned Evergreen Review Thinking for Smarter Balanced Assessment Consortium



Four 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!

Four focused rounds using evergreen review thinking

This book gives you four 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 four-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?

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.

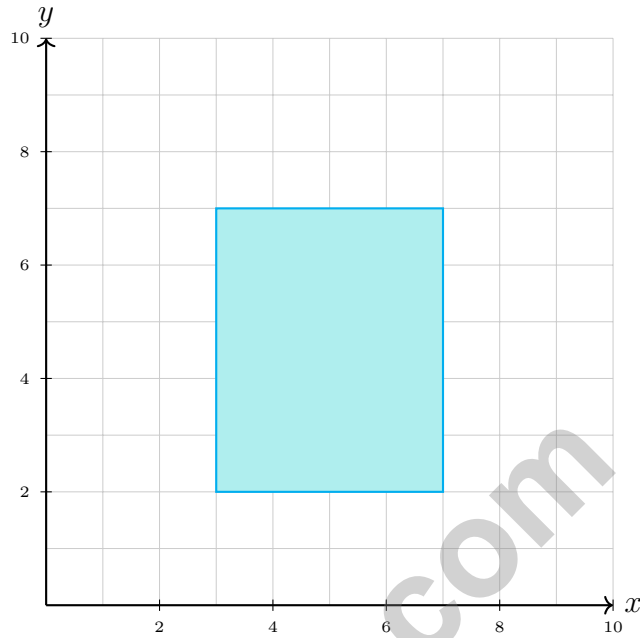
The tests are mixed on purpose. Evergreen review thinking means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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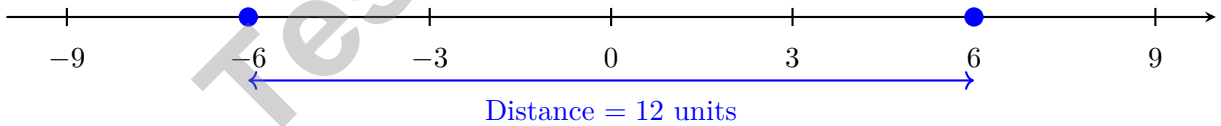


1)

A rectangle has vertices at $(3, 2)$, $(7, 2)$, $(7, 7)$, and $(3, 7)$. What is its area?

- | | |
|---|---|
| <input type="checkbox"/> A. 16 square units | <input type="checkbox"/> C. 20 square units |
| <input type="checkbox"/> B. 18 square units | <input type="checkbox"/> D. 22 square units |

2)



On a number line, the distance between -6 and 6 is:

- | | |
|-------------------------------|-----------------------------------|
| <input type="checkbox"/> A. 0 | <input type="checkbox"/> C. 12 |
| <input type="checkbox"/> B. 6 | <input type="checkbox"/> D. -12 |



3) On a number line, the midpoint between two numbers is -0.5 . If one number is -2 , what is the other number?

A. -3.5

C. 1.5

B. -1

D. 1

4) Which coordinate sign combination identifies Quadrant IV?

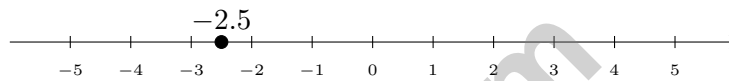
A. $(+, +)$

C. $(-, -)$

B. $(-, +)$

D. $(+, -)$

5)



Which two integers is -2.5 between?

A. -3 and -2

C. 2 and 3

B. -2 and -1

D. -4 and -2

6) The distance between points $(4, 5)$ and $(4, y)$ is 7 units. The points have the same x -coordinate. What could y be?

A. $y = -3$ or $y = 12$

C. $y = -1$ or $y = 11$

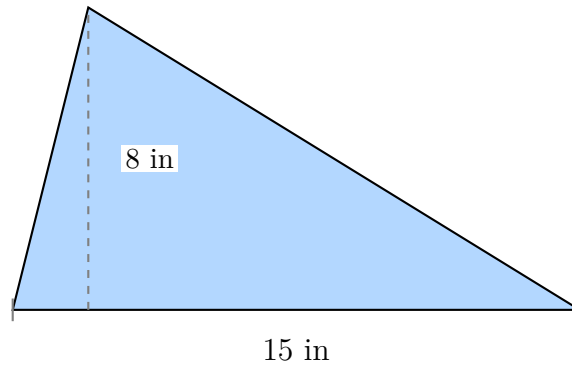
B. $y = -2$ or $y = 12$

D. $y = 0$ or $y = 10$

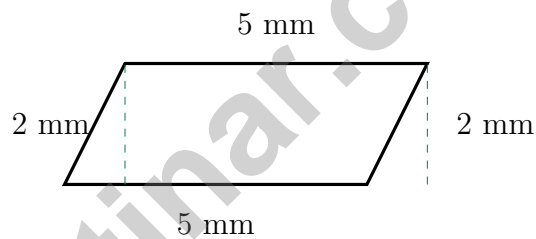


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- 7) An obtuse triangle has a base of 15 inches and a perpendicular height of 8 inches measured from the opposite vertex to the extended base line. What is the area?



- A. 60 in^2
 C. 23 in^2
 B. 30 in^2
 D. 120 in^2



- 8) Find the area of the parallelogram shown above.

- A. 4 mm^2
 C. 10 mm^2
 B. 7 mm^2
 D. 14 mm^2

- 9) 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



- 1) A student types 180 words in 3 minutes. At this rate, how many words can the student type in 5 minutes?
- A. 200 words C. 300 words
 B. 240 words D. 360 words
- 2) A teacher asks: “What is a typical shoe size for sixth graders?”
Which statement is true?
- A. This is not statistical because all sixth graders wear the same shoe size. C. This is statistical because the teacher asked it.
 B. This is non-statistical because it is about shoes. D. This is statistical because shoe sizes vary among sixth graders.
- 3) A teacher is deciding whether to report the mean or median test score to parents. The test scores for the class are: 65, 68, 70, 72, 75, 78, 80, 82, 85, 88, 92, 98. Which should be reported and why?
- A. Mean, because it uses all the data C. Mean, because higher numbers look better
 B. Median, because it better represents the typical student D. Median, because it is always better than the mean
- 4) A probability line goes from 0 to 1. Where would you place an event with probability $\frac{1}{4}$?
- A. At 0 (impossible). C. At $\frac{1}{2}$ (even chance).
 B. Between 0 and $\frac{1}{2}$ (unlikely). D. Between $\frac{1}{2}$ and 1 (likely).

- 5) In a back-to-back stem-and-leaf plot, Class A (left) and Class B (right) show test scores. What is the smallest score in Class A?

Class A	Stem	Class B
7, 5, 2	8	1, 4, 6

- A. 81
 B. 82
 C. 84
 D. 86
- 6)
- A restaurant surveyed 180 customers about their favorite drink. The circle graph shows 25% like coffee. How many customers prefer coffee?
- A. 45
 B. 35
 C. 25
 D. 55
- 7) A science class recorded the heights of 50 plants in cm: 8, 12, 15, 18, 20, 21, 22, 23, 25, 26, 28, 30, 31, 33, 35, 38, 40, 42, 44, 46, 48, 50, 52, 54, 55, 57, 59, 61, 62, 64, 65, 67, 68, 70, 72, 74, 75, 77, 78, 80, 82, 84, 85, 87, 88, 90, 92, 94, 95, 98.
- Which display would be BEST for showing the spread and frequency of plant heights?
- A. Bar graph showing each height
 B. Pictograph with plant symbols
 C. Circle graph dividing by plant type
 D. Histogram with intervals of 10 cm



Scan me!
For more practice
& answers

1) Solve for x : $x - 7 = 13$

A. $x = 6$

C. $x = 20$

B. $x = 13$

D. $x = 91$

2) 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.

3) A student buys snacks for \$3.45, \$2.20, and \$4.85. What is the total cost?

A. \$10.50

C. \$10.40

B. \$9.65

D. \$11.50

4) What is the GCF of 16 and 40?

A. 4

C. 16

B. 20

D. 8

5) Which shows $15 + 10$ factored using the GCF?

A. $3(5 + 10)$

C. $2(8 + 5)$

B. $5(3 + 2)$

D. $10(2 + 1)$



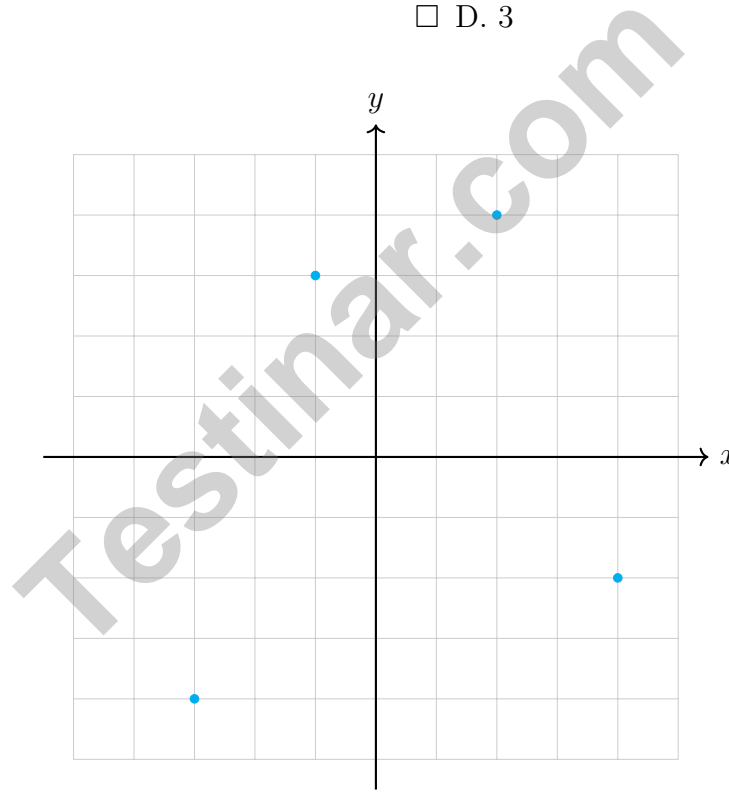
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& answers

6) The highest point in a state has an elevation of 6000 feet. The lowest point has an elevation of -500 feet. How many feet higher is the highest point than the lowest point?

- A. 5500 feet
- B. 6500 feet
- C. 5000 feet
- D. 6000 feet

7) A zoomed number line shows the region from 1 to 2 divided into tenths. A point is marked at 1.3. What is the distance from this point to 2 on the number line?

- A. 0.3
- B. 0.7
- C. 1.3
- D. 3



8) Which of the plotted points is in Quadrant III?

- A. (2, 4)
- B. (-1, 3)
- C. (4, -2)
- D. (-3, -4)

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 four 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.G.A.1)** Width: $7 - 3 = 4$ units. Height: $7 - 2 = 5$ units. Area = $4 \times 5 = 20$ square units.
- Choice C is correct.** **(6.NS.C.7c)** From -6 to 6 is $6 - (-6) = 6 + 6 = 12$ units apart.
- Choice D is correct.** **(6.NS.C.6c)** Using midpoint formula: $\frac{-2+x}{2} = -0.5 \Rightarrow -2 + x = -1 \Rightarrow x = 1$.
- Choice D is correct.** **(6.NS.C.8)** Quadrant IV is in the lower right, where x values are positive and y values are negative.
- Choice A is correct.** **(6.NS.C.7d)** $-3 < -2.5 < -2$ on the number line.
- Choice B is correct.** **(6.NS.C.8)** Since $|5 - y| = 7$, then $y = 5 - 7 = -2$ or $y = 5 + 7 = 12$.
- Choice A is correct.** **(6.G.A.1)** Even for obtuse triangles, $A = \frac{1}{2}bh = \frac{1}{2} \times 15 \times 8 = 60 \text{ in}^2$.
- Choice C is correct.** **(6.G.A.1)** Area = base \times height = $5 \times 2 = 10 \text{ mm}^2$.
- Choice D is correct.** **(6.G.A.2)** $V = 10 \times 4 \times 3 = 40 \times 3 = 120 \text{ m}^3$.
- Choice C is correct.** **(6.G.A.3)** Side length = $8 - 2 = 6$ units. Area = $6 \times 6 = 36$ square units.
- Choice C is correct.** **(6.EE.A.2a)** The tree shows $3x$ and 5 combining via addition into $3x + 5$, representing the sum of $3x$ and 5 . (Distractor B would be $3(x + 5) = 3x + 15$, which is different.)
- The correct answer is 52%.** **(6.RP.A.3c)** A 10×10 grid has 100 squares total. If 52 are shaded, the percent is $\frac{52}{100} = 52\%$.
- Choice A is correct.** **(6.SP.A.2)** Plot A forms a triangle shape with a peak in the middle (at 3), with equal tails on both sides. Plot B has outliers on the right, making it skewed right.
- Choice D is correct.** **(6.SP.B.5c)** The lower half of the ordered data is 2, 3, 4. The median of the lower half (lower quartile, Q1) is 3.
- Choice D is correct.** **(6.NS.C.7d)** 6% of $\$2500 = 0.06 \times 2500 = \150 .
- The correct answer is 90.** **(6.RP.A.3c)** 60% of $150 = 0.60 \times 150 = 90$ students.
- Choice A is correct.** **(6.NS.C.7d)** The ratio p/h is constant: $12/1 = 24/2 = 36/3 = 48/4 = 12$. That means the unit rate is $\$12$ per hour, and the equation $p = 12h$ represents the proportional relationship.
- Choice A is correct.** **(6.EE.C.9)** Miscellaneous: $100\% - 50\% - 30\% = 20\%$ of $\$200 = 0.20 \times 200 = \40 .
- 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 B is correct.** **(6.NS.A.1)** $\frac{2}{9} \times \frac{9}{4} = \frac{18}{36} = \frac{1}{2}$.
- Choice B is correct.** **(6.NS.B.2)** The estimate is ≈ 192 . The exact answer is $4,756 \div 26 = 182$ remainder 24, which rounds to 183 as the closest choice.
- Choice A is correct.** **(6.NS.B.3)** Add: $2.25 + 3.75 = 6.0$ km.
- Choice B is correct.** **(6.NS.B.4)** $50 = 2 \times 25 = 2 \times 5 \times 5 = 2 \times 5^2$. Options A and C use composite numbers; D is not factored.
- The correct answer is 4.** **(6.RP.A.3)** Ratio 2 : 5 with flour = 10 cups: each part is $10 \div 5 = 2$ cups. Sugar: $2 \times 2 = 4$ cups.
- Choice A is correct.** **(6.NS.B.4)** Left ribbon: $3(5 + 7) = 36$. Right ribbon: $2(5 + 7) = 24$. Stack them openly: $3(5 + 7) + 2(5 + 7) = 60$. Option B subtracts instead of adds; option C skips half the rectangles; option D wrongly multiplies inside the parentheses.



Scan me!
For more practice
& answers

Hi, Hero!

◇ Once there was a Grade 6 student who took 4 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

Storyteller tip: on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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

Jay Daie

Your Math Storyteller

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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

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AND LEARNING RESOURCES



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