



6

Washington

Smarter Balanced



GRADE 5 MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



$$5^2 = 25$$



6 FULL-LENGTH PRACTICE TESTS
Realistic style questions



STANDARDS-BASED PRACTICE
Covers all Grade 5 Math standards

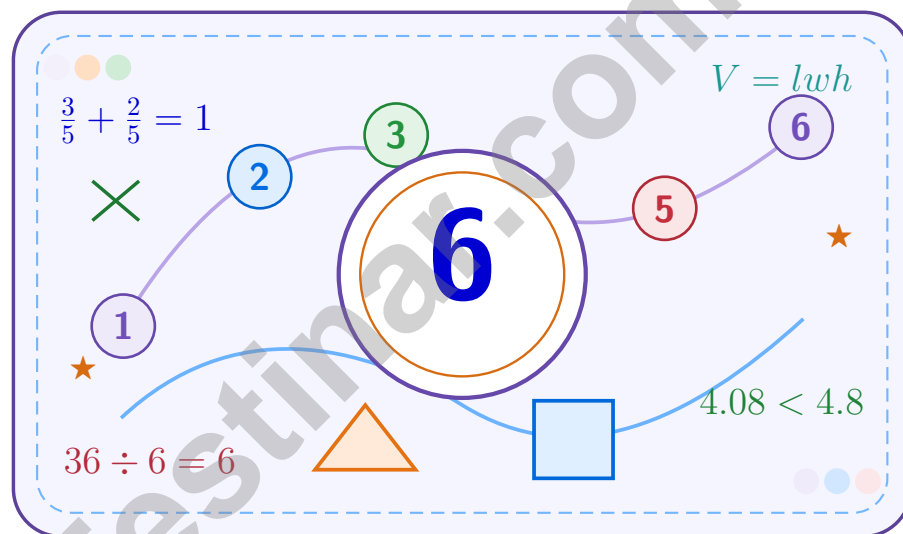


BUILD CONFIDENCE. IMPROVE SCORES.
Target weak areas and achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

6 Washington Smarter Balanced Grade 5 Math Practice Tests

A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

How to Use This Book

A simple practice routine that turns six tests into steady growth

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



Scan me

Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Washington Smarter Balanced. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



Table of Contents

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Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

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TIME

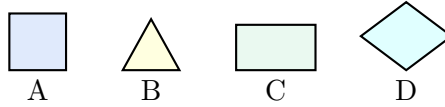
1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

1 day = 24 hours (hr) 1 year = 52 weeks



1) The figures below are labeled A-D. Which figure is a rectangle but not a square?



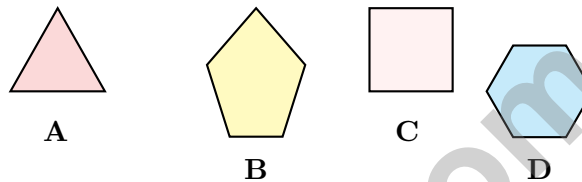
A. Figure A

B. Figure B

C. Figure C

D. Figure D

2) Which shape is a regular hexagon?



A. A

B. B

C. C

D. D

3) Find the difference: $\frac{3}{4} - \frac{1}{6}$.

Record your answer in the space provided.

4) A bottle contains $\frac{7}{9}$ liter of juice. You pour $\frac{3}{7}$ of the juice into a glass. How much juice is in the glass? Give the answer in simplest form.

A. $\frac{21}{16}$ liter

B. $\frac{1}{3}$ liter

C. $\frac{4}{16}$ liter

D. $\frac{1}{2}$ liter



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1) Add: $\frac{5}{8} + \frac{1}{6}$

A. $\frac{6}{14}$

B. $\frac{8}{24}$

C. $\frac{6}{8}$

D. $\frac{19}{24}$

2) A measurement shows rope lengths: 2.34 m and 1.52 m. What is the total length?

A. 3.76 m

B. 3.86 m

C. 3.96 m

D. 4.86 m

3) Compare: $12 + (8 \times 5)$ $(12 + 8) \times 5$

A. $>$

 B. Cannot tell

C. $=$

D. $<$

4) Evaluate: $9 + 8 \div 2 - 3$

A. 5

B. 7

C. 10

D. 14

5) A bag has 4 pounds of rice. Each container holds one third pound. Which division equation matches the situation?

A. $\frac{1}{3} \div 4 = n$

B. $4 \times \frac{1}{3} = n$

C. $4 + \frac{1}{3} = n$

D. $4 \div \frac{1}{3} = n$

6) What is the missing numerator? $\frac{3}{4} = \frac{?}{12}$

A. 6

B. 8

C. 9

D. 12



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Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (5.G.B.4) Figure C is a rectangle with unequal side lengths. It has four right angles, but it does not have four equal sides, so it is not a square.
- 2) **Choice D is correct.** (5.G.B.3) A regular hexagon has 6 equal sides and 6 equal angles. It is a regular polygon.
- 3) **The correct answer is $\frac{7}{12}$.** (5.NF.A.2) LCD = 12. $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$.
- 4) **Choice B is correct.** (5.NF.B.6) $\frac{3}{7} \times \frac{7}{9} = \frac{21}{63}$, which simplifies to $\frac{1}{3}$ liter.
- 5) **Choice B is correct.** (5.NBT.B.6) $1,620 \div 27 = 60$ books per box. Check: $27 \times 60 = 1,620$.
- 6) **Choice C is correct.** (5.NF.B.7c) Dividing by 2 splits the fraction in half: $\frac{1}{4} \div 2 = \frac{1}{8}$.
- 7) **Choice C is correct.** (5.MD.C.5a) C is correct: $6 \times 5 \times 4 = 120$ cubic units. A: volume is 60. B: volume uses cubic units. D: doubling one dimension doubles the volume.
- 8) **Choice D is correct.** (5.NBT.A.2) Metric conversion: $54.2 \text{ mm} \div 10 = 5.42 \text{ cm}$. Dividing by 10 moves decimal 1 place left.
- 9) **Choice B is correct.** (5.NF.B.7c) $3 \div \frac{1}{2} = 3 \times 2 = 6$. She gets 6 pieces.
- 10) **Choice D is correct.** (5.NBT.A.2) $10^2 = 100$. So $? \times 100 = 4500 \Rightarrow ? = 45$.
- 11) **Choice C is correct.** (5.NBT.B.7) The correct answer is $7.30 - 2.15 = 5.15$. The student got 6.15, which shows the ones were subtracted incorrectly: $7 - 2$ should be 5, not 6.
- 12) **The correct answer is $\frac{1}{4}$.** (5.NF.B.5b) Multiply first: $\frac{5 \times 3}{6 \times 10} = \frac{15}{60}$. Since 15 is one fourth of 60, the product is $\frac{1}{4}$.
- 13) **Choice D is correct.** (5.NF.B.5b) $1\frac{3}{4} \times 8 = \frac{7}{4} \times 8 = \frac{56}{4} = 14$ yards.
- 14) **Choice B is correct.** (5.OA.A.2) "The sum of 12 and 8" means group $12 + 8$. "Half of" that sum means divide the grouped total by 2.
- 15) **Choice D is correct.** (5.NBT.A.2) $10^2 = 100$; multiplying by 100 moves the decimal 2 places to the right.
- 16) **Choice A is correct.** (5.G.A.1) Reading from the grid: P is 2 right, 5 up $\Rightarrow (2, 5)$; Q is 6 right, 3 up $\Rightarrow (6, 3)$; R is 8 right, 7 up $\Rightarrow (8, 7)$.
- 17) **Choice B is correct.** (5.NF.B.4) The six jumps each move $\frac{1}{2}$. Counting them lands at 3, so $6 \times \frac{1}{2} = \frac{6}{2} = 3$.
- 18) **Choice C is correct.** (5.G.A.2) Both points have the same y -coordinate (4), so they are on a horizontal line. The distance is the difference of the x -coordinates: $8 - 2 = 6$ units.
- 19) **Choices A, B are correct.** (5.MD.C.5) Two notebooks cost $2 \times 3.25 = 6.50$, so A is true. One notebook and two pens cost $3.25 + 2 \times 1.15 = 5.55$, so B is true. C and D miscalculate.
- 20) **Choice B is correct.** (5.NBT.A.3a) 51 out of 100 squares shaded represents $\frac{51}{100} = 0.51$.
- 21) **The correct answer is equilateral.** (5.G.B.4) The side lengths are 5 cm, 5 cm, and 5 cm, so all 3 sides are equal. The triangle is equilateral.
- 22) **Choice D is correct.** (5.OA.B.3) The rule is: multiply each term by its position number. $48 \times 5 = 240$.
- 23) **Choice C is correct.** (5.MD.C.5a) Volume = $18 \times 12 \times 10 = 216 \times 10 = 2160 \text{ in}^3$.
- 24) **Choice C is correct.** (5.MD.C.4) Prism A: $4 \times 3 \times 2 = 24$ cubes. Prism B: $4 \times 3 \times 5 = 60$ cubes. Difference: $60 - 24 = 36$ unit cubes.
- 25) **Choice C is correct.** (5.MD.A.1) Total: 9 yards = 27 feet. Each piece: $27 \div 3 = 9$ feet.
- 26) **Choice B is correct.** (5.MD.A.1) $\frac{1}{4}$ foot = $\frac{1}{4} \times 12 = 3$ inches.
- 27) **Choice C is correct.** (5.NBT.B.7) $1.75 \times 4 = 7$. Multiply: $175 \times 4 = 700$, then place decimal two places from right: $7.00 = 7$ liters.
- 28) **Choice D is correct.** (5.NF.B.5a) $20 \times \frac{3}{4} = 15$ ounces. Multiplying by a fraction less than 1 gives a smaller result.
- 29) **Choice B is correct.** (5.NBT.A.3b) Trailing zeros do not change value: $0.3 = 0.30 = 0.300$ (all equal 3 tenths).
- 30) **Choice B is correct.** (5.NF.B.4b) The vertical shading covers $\frac{4}{7}$ of the width and the horizontal shading covers $\frac{1}{3}$ of the height. The overlap is $\frac{1}{3} \times \frac{4}{7} = \frac{4}{21}$.
- 31) **The correct answer is 12.65.** (5.NBT.A.4) Thousandths digit is 2, less than 5, so the hundredths digit stays: 12.65.



Conductor's Final Rehearsal Notes

Greetings, Master Conductor!

★ Brilliant performance! You've conducted six complete mathematical symphonies, orchestrating solutions with precision and harmony like a world-class conductor! Each problem required you to coordinate multiple mathematical elements, maintain tempo, and create elegant solutions. Your mathematical musicianship has developed beautifully through this intensive rehearsal period! ★

◇ **Here's what great conductors know:** they don't just read the notes; they understand the entire composition and how every part connects. You've developed that same comprehensive understanding through these six tests! You see how mathematical concepts relate to each other and how to bring them together into coherent solutions. That's mathematical mastery! ◇

Orchestra Performance Review

- **Rhythm and Timing:** You pace yourself effectively through tests without rushing!
- **Harmony:** You balance different problem-solving methods beautifully!
- **Technical Mastery:** You execute mathematical procedures with confidence!
- **Performance Ready:** You're prepared for opening night on test day!

Remember this musical wisdom: the best performances happen when musicians stop thinking about technique and simply play from the heart. After six complete rehearsals, your mathematical techniques have become second nature. On test day, trust your preparation and let your knowledge flow naturally. You're ready for a standing ovation!

Want to share your mathematical compositions or discuss a particularly elegant solution? Send your musical insights to reza@testinar.com. I appreciate mathematical artistry!

Reza Nazari & Jay Daie

Your Math Coaches for Staying Focused

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



Visit testinar.com/math5

for more Grade 5 math resources and practice materials!



Testinar

Smart Practice. Stronger Results.