

4

COMPLETE

Washington

Smarter Balanced

Grade

MATH

5

PRACTICE TESTS

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



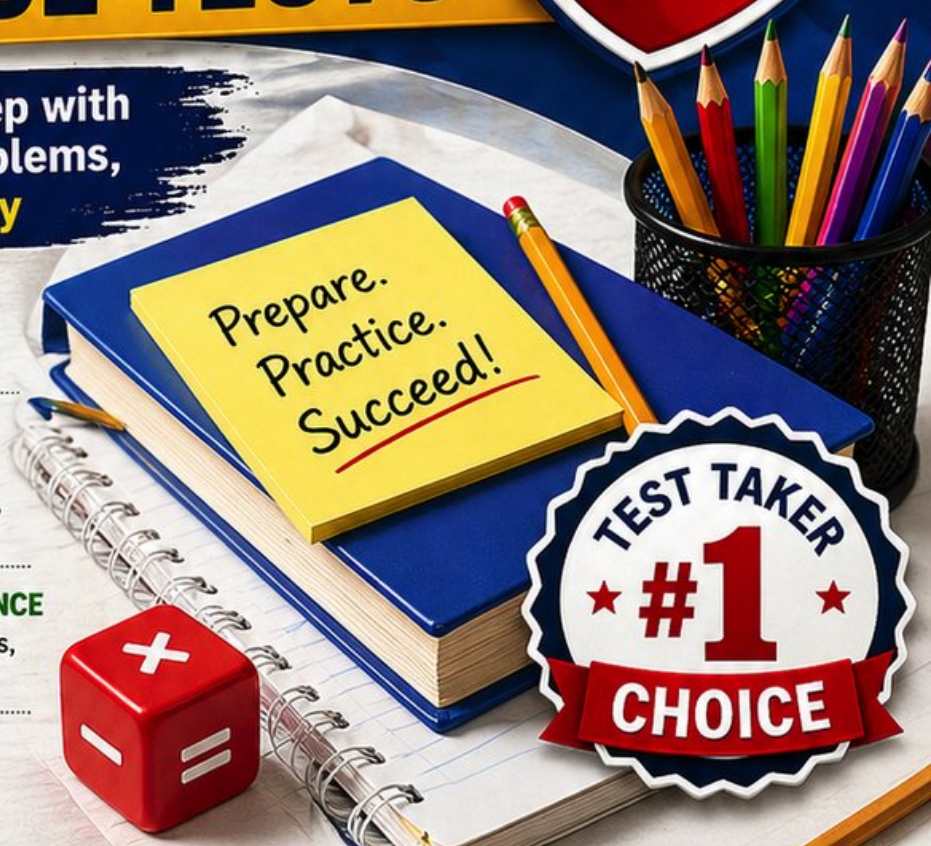
- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



BUILD STRONG MATH SKILLS & TEST READINESS



IMPROVE ACCURACY, SPEED, AND PROBLEM SOLVING



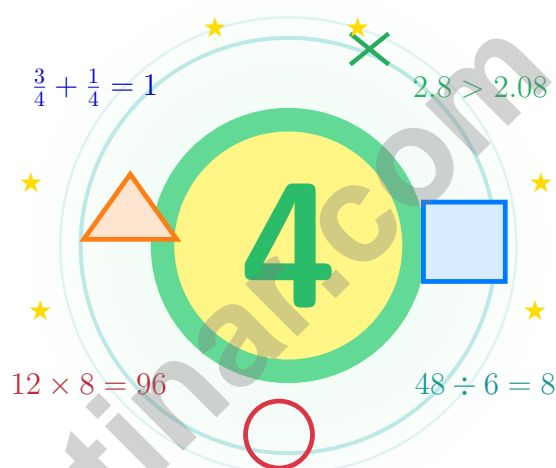
PERFECT FOR CLASSROOM, HOME, OR SELF-STUDY



ALIGNED TO WASHINGTON STATE STANDARDS (SMARTER BALANCED)

4 Washington Smarter Balanced Grade 5 Math Practice Tests

A four-test mission for curious, careful Grade 5 thinkers



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Evergreen State build calm, careful, confident habits.

Jay Daie and Reza Nazari



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Washington, The Four-Test Quest Starts Here

Four full tests, four lessons, one stronger mathematician

To Every Math Brain in Washington

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is like a Mount Rainier trail – it rises steadily, rewards patience, and never asks you to rush.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Read Slow

Read each word twice and underline what is asked.

Choose Smart

Pick the operation, model, or sketch that fits.

Grow

Use missed questions as clues for what to learn next.

A strong mission habit for Washington: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

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Scan me



Use This Book Like a Mission Coach

A four-step routine that turns practice into real improvement

Step 1: Warm Up

Sharpen your math brain with the quick review.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Mission Run

Take a full practice test in a calm spot.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Debrief

Score honestly and circle missed questions.

Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

Step 4: Repair Kit

Fix the missed work and lock the lesson in.

Read the explanation, fix the work, and carry that lesson into the very next test.

A Four-Week Washington Mission Map

Week	Mission Focus
Week 1	Take Test 1 like the first switchback on Mount Rainier.
Week 2	Take Test 2 and aim attention at word problems and step-showing.
Week 3	Take Test 3 to polish fractions, decimals, and conversions.
Week 4	Take Test 4 with calm, careful, evergreen focus.



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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)

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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

Customary

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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) A container holds $\frac{7}{8}$ liter of milk. If you use $\frac{1}{2}$ of the milk, how much do you use?

A. $\frac{7}{16}$ liter

B. $\frac{1}{4}$ liter

C. $\frac{7}{10}$ liter

D. $\frac{8}{10}$ liter

2) A tailor measures fabric: 2.45 meters vs. 2.54 meters. Which is longer?

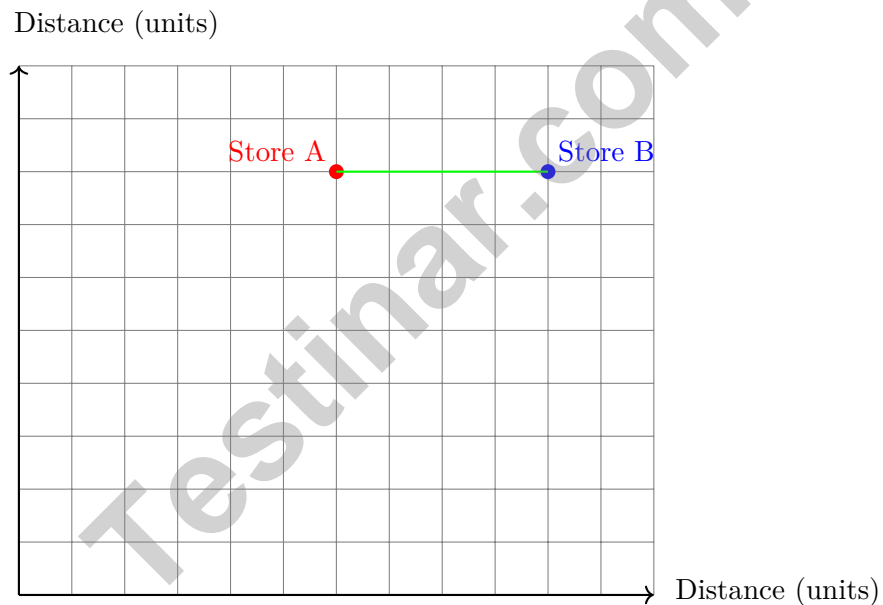
A. 2.45 m

B. 2.54 m

C. Equal length

D. Cannot determine

3) A town map shows Store A at grid point (6, 8) and Store B at (10, 8). How many units apart are these stores on the map?



A. 2 units

B. 4 units

C. 6 units

D. 8 units



- 4) A solid is made of 5 unit cubes stacked in a line. What is its volume in cubic units?

Record your answer in the space provided.

- 5) A kitchen scale shows weights in grams. Three ingredients are measured: Salt: 25 grams, Sugar: 50 grams, Flour: 225 grams.

How many kilograms is the total weight?

- A. 0.03 kilograms C. 3 kilograms
 B. 30 kilograms D. 0.3 kilograms

- 6) Add: $0.34 + 0.68 = ?$

- A. 1.02 C. 1.04
 B. 1.03 D. 1.13

- 7) Using powers of 10, what is $\frac{9,400}{10^2}$?

- A. 0.94 C. 940
 B. 9.4 D. 94

- 8) A backpack weighs 8.5 kilograms. What is the weight in grams?

- A. 85 g C. 8,500 g
 B. 850 g D. 85,000 g



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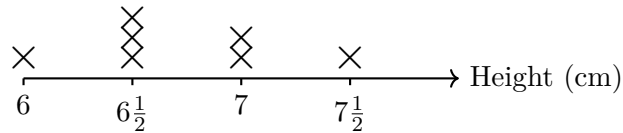
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1) If a pattern starts at 1 and doubles each step, which term is 64?

- A. 5th C. 7th
 B. 6th D. 8th

2) A line plot shows plant heights in centimeters:



What is the total height of all the plants?

Record your answer in the space provided.

3) Five wholes are divided into pieces of size $\frac{1}{3}$. Which equation finds how many one-third pieces there are?

- A. $\frac{1}{3} \div 5 = n$ C. $5 + \frac{1}{3} = n$
 B. $5 \times \frac{1}{3} = n$ D. $5 \div \frac{1}{3} = n$

4) In a classroom, $\frac{1}{4}$ of the 32 students are wearing blue. How many students wear blue?

- A. 4 students C. 16 students
 B. 8 students D. 24 students



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- 1) Two identical boxes are stacked on top of each other. Each box is 8 in. \times 5 in. \times 3 in.. If stacked end-to-end (height-wise), what is the combined volume?

Box 1
 $8 \times 5 \times 3$ in.

Box 2 (stacked above)
 $8 \times 5 \times 3$ in.

- A. 120 cubic inches
- B. 480 cubic inches
- C. 360 cubic inches
- D. 240 cubic inches
- 2) Find the sum: $1\frac{1}{2} + 2\frac{1}{3}$.

Record your answer in the space provided.

- 3) Write a division equation for: $\frac{1}{6}$ of a cake shared equally by 3 children.

Record your answer in the space provided.



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- 1) A rectangular fish tank has a base of 6 inches by 4 inches. If the tank is 5 inches tall, what is its volume?
- A. 100 in^3 C. 120 in^3
 B. 110 in^3 D. 150 in^3
- 2) A composite classroom model is made from two non-overlapping rectangular prisms. Prism A is 9 meters long, 4 meters wide, and 5 meters tall. Prism B is 6 meters long, 2 meters wide, and 3 meters tall. What is the total volume?
- A. 180 cubic meters C. 252 cubic meters
 B. 36 cubic meters D. 216 cubic meters
- 3) A restaurant has 8 tables with 4 legs each. It also has 10 chairs, but 2 chairs are moved away. Evaluate: $8 \times 4 + (10 - 2)$
- A. 40 C. 48
 B. 42 D. 50
- 4) A piece of fabric is 24.6 m long. It is cut into 6 equal pieces. How long is each piece?

Record your answer in the space provided.

- 5) Find: 7×10^5 .

Record your answer in the space provided.



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 A is correct.** (5.NF.B.6) $\frac{1}{2} \times \frac{7}{8} = \frac{7}{16}$ liter.
- 2) **Choice B is correct.** (5.NBT.A.3b) $2.54 > 2.45$ because 5 tenths $>$ 4 tenths. The second piece is longer.
- 3) **Choice B is correct.** (5.G.A.2) Both stores have the same y-coordinate (8), so they are on a horizontal line. The distance is $10 - 6 = 4$ units.
- 4) **The correct answer is 5.** (5.MD.C.3b) Each unit cube takes up 1 cubic unit of space. A line of 5 unit cubes therefore has volume 5 cubic units.
- 5) **Choice D is correct.** (5.MD.A.1) Add the grams first: $25 + 50 + 225 = 300$ grams. Since 1,000 grams make 1 kilogram, $300 \div 1,000 = 0.3$ kilograms.
- 6) **Choice A is correct.** (5.NBT.B.7) Hundredths: $4 + 8 = 12$, so write 2 and regroup 1 tenth. Tenths: $3 + 6 + 1 = 10$, so the sum is 1.02.
- 7) **Choice D is correct.** (5.NBT.A.2) $10^2 = 100$, so $9,400 \div 100 = 94$.
- 8) **Choice C is correct.** (5.MD.A.1) 1 kg = 1,000 g. Multiply: $8.5 \times 1000 = 8500$ g.
- 9) **Choice C is correct.** (5.OA.A.1) Evaluate each expression carefully: A = 20, B = 14, C = 36, and D = 22. Since 36 is the greatest value, choice C is correct.
- 10) **Choice A is correct.** (5.MD.B.2) Items at \$3: 2, Items at \$6: 3. Total: $2 + 3 = 5$ items cost less than \$9.
- 11) **The correct answer is 700,000.** (5.NBT.A.2) 100,000 has five zeros, so $7 \times 100,000$ is 7 followed by five zeros: 700,000.
- 12) **Choice D is correct.** (5.NF.B.5a) $18 \times \frac{2}{3} = 12$ feet. Multiplying by $\frac{2}{3}$ (less than 1) scales the length down by one-third.
- 13) **Choice B is correct.** (5.OA.A.2) The shortest bar is half the sum, the middle bar is the sum itself, and the longest bar is double the sum. That gives the order in choice B.
- 14) **Choice C is correct.** (5.NBT.A.3a) The hundredths place is the second position to the right of the decimal point. In 2.536, the hundredths digit is 3.
- 15) **Choice B is correct.** (5.NBT.A.4) Only B is correct. For the nearest tenth, look at the hundredths digit (3). Since $3 < 5$, the tenths stays 2, giving 6.2. A names the wrong place (6.24 has two decimal places, not one). C is wrong because the tenths digit (2) is less than 5, so 6.234 rounds down to 6, not up to 7. D is wrong because the thousandths digit is 4, so the hundredths stays 3, giving 6.23 (not 6.24).
- 16) **Choice A is correct.** (5.G.A.1) From (5, 5) to (5, 2), the y-coordinate changes from 5 to 2. The distance is $5 - 2 = 3$ units downward.
- 17) **Choice B is correct.** (5.OA.B.3) Each value in Pattern Y is double the matching value in Pattern X: $3 \times 2 = 6$, $6 \times 2 = 12$, and $9 \times 2 = 18$.
- 18) **Choice B is correct.** (5.NF.B.5b) $\frac{3}{8} \times \frac{2}{5} = \frac{3 \times 2}{8 \times 5} = \frac{6}{40}$, which simplifies to $\frac{3}{20}$.
- 19) **Choice D is correct.** (5.NBT.A.2) A: $10 \times 5.3 = 53$ (false). B: $100 \times 5.3 = 530$ (true). C: $1000 \times 0.53 = 530$ (false). D: $10 \times 0.053 = 0.53$ (false).
- 20) **Choices A, B are correct.** (5.NF.B.7c) We are counting one-third scoops in 2 cups. A gives the division equation, and B is the related multiplication equation.
- 21) **Choice B is correct.** (5.NF.B.5a) Multiplying by a factor less than 1 makes a positive quantity smaller. Since $\frac{3}{4} < 1$, the new length is less than the original.
- 22) **Choice A is correct.** (5.NF.A.2) $\frac{3}{4} = \frac{6}{8}$. Then $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$ cup of sugar.
- 23) **Choice D is correct.** (5.MD.C.5) The base layer has $6 \times 5 = 30$ square units. Divide the volume by the base area: $150 \div 30 = 5$, so the height is 5 meters.
- 24) **Choice D is correct.** (5.MD.C.5a) Volume = $9 \times 5 \times 4 = 45 \times 4 = 180$ m³.
- 25) **Choice B is correct.** (5.MD.C.5) The base area is $12 \times 10 = 120$ square centimeters. Since $1440 \div 120 = 12$, the tank is 12 cm deep.
- 26) **The correct answer is 2.5.** (5.G.A.2) For nonzero terms, $5 \div 2 = 2.5$, $10 \div 4 = 2.5$, and $15 \div 6 = 2.5$. Each A value is 2.5 times the matching B value.
- 27) **Choice B is correct.** (5.NF.B.7c) Each whole contains 4 pieces of size $\frac{1}{4}$. With 4 wholes, there are $4 \times 4 = 16$ pieces.
- 28) **Choice A is correct.** (5.NF.A.1) LCM(8,4) = 8. $\frac{3}{4} = \frac{6}{8}$. $\frac{1}{8} + \frac{6}{8} = \frac{7}{8}$.



Authors' Notes

From a Friend Who Believes in You

Hi, Brilliant Friend!

◇ I have to tell you something important: I am proud of you. You completed 4 full practice tests. That takes time, focus, and heart. Many students never push themselves like that. You did. That tells me everything about your work ethic. ◇

★ **Here's a friendly reminder:** a test does not measure your worth. It measures one slice of your skills on one day. You are much more than a score. The work you put in to grow—that is the real win. ★

Things I Want You to Remember

- **You are capable.** Every test you finished proves it.
- **You are resilient.** You worked through hard problems.
- **You are growing.** Every mistake taught you something new.
- **You are ready.** The skills are inside you.

One last thing: when you sit down on test day, take a deep breath, smile a tiny smile, and remember that someone (me!) believes in you. You've got this.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Friend (Always in Your Corner)

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

WHAT'S INSIDE:



4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



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Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



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Build problem-solving skills with mixed review questions and real-world word problems.



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Step-by-step explanations for every question to help students learn and improve.



BUILD CONFIDENCE & IMPROVE SCORES

Practice consistently, reduce test anxiety, and achieve your best score!



PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.



Strengthen
Math Skills



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Concepts



Boost
Confidence
on Test Day



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