

9

Wyoming

WY TOPP

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



9
FULL-LENGTH
PRACTICE
TESTS

$$2,345 \times 6 = 14,070$$



$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

$$7.2 \div 0.8 = 9$$



$$(12 + 8) \div 4 = 5$$



Build Confidence



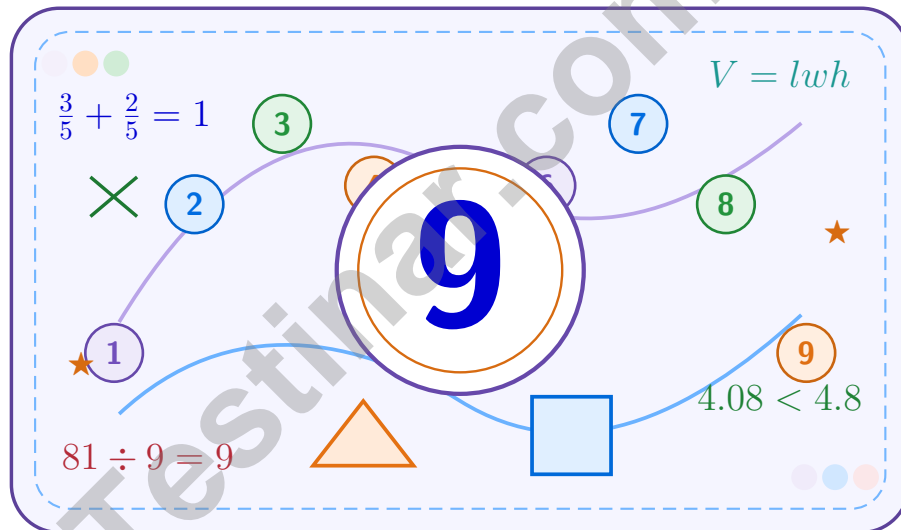
Improve Math Skills



Achieve Success

9 Wyoming WY-TOPP Grade 5 Math Practice Tests

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



Nine full tests, focused skill boosters, 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 nine 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 nine tests into steady growth

A Nine-Session Climb Map

Session	Mission Focus
1	Take Test 1; review place value and operation slips.
2	Take Test 2; keep work neat and easy to read.
3	Take Test 3; give extra time to fractions and decimals.
4	Take Test 4; slow down on word problems and units.
5	Take Test 5; compare scores and habits with earlier rounds.
6	Take Test 6; notice which habits are now automatic.
7	Take Test 7; explain open-ended answers clearly.
8	Take Test 8; review topics that still need attention.
9	Take Test 9; finish with calm, careful, confident work.

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.



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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 Wyoming WY-TOPP. 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 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)

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



1) Which expression has the fewest zeros in its product?

A. 3×10

C. 20×50

B. 40×50

D. 25×20

2) Find the missing subtrahend: $22.74 - ? = 15.38$.

A. 7.36

C. 6.36

B. 7.46

D. 6.46

3) Estimate: $2\frac{4}{9} + 3\frac{5}{6}$.

Estimate

$$2\frac{4}{9} \approx 2$$

≈ 2

$$3\frac{5}{6} \approx 4$$

≈ 4

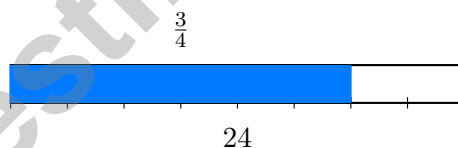
A. 5

C. 7

B. 8

D. 6

4) A recipe uses $\frac{3}{4}$ cup of oats for each batch. How many cups of oats are needed for 24 batches?



A. 6

C. 18

B. 12

D. 24

5) Which set of dimensions gives the larger volume?

Set X
 $2 \times 2 \times 2$

Set Y
 $1 \times 2 \times 1$

A. Set X

C. Both are equal

B. Set Y

D. Cannot be determined



- 6) A store sells notebooks for \$2.45 each. How much do 12 notebooks cost?

Record your answer in the space provided.

- 7) A rectangular prism can hold 72 unit cubes. Two of its dimensions are 8 units and 3 units. What is the third dimension?

- A. 9 units C. 6 units
 B. 4 units D. 3 units

- 8) A measurement is 11.549 cm. Round to nearest tenth for a woodworking project.

- A. 11.5 cm C. 11.6 cm
 B. 11.54 cm D. 12 cm

- 9) Compare the fractions $\frac{2}{5}$ and $\frac{1}{3}$ by finding a common denominator. Which statement is true?

- A. $\frac{2}{5} < \frac{1}{3}$ C. $\frac{2}{5} = \frac{1}{3}$
 B. $\frac{2}{5} > \frac{1}{3}$ D. Cannot compare

- 10) A recipe requires 2.5 liters of broth. A container holds 2,500 milliliters. Is the container large enough?

- A. Yes, and there will be extra C. No, it is too small
 B. Yes, but it will be full D. Cannot determine



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1) Find the missing addend: $\frac{5}{12} + ? = \frac{7}{8}$

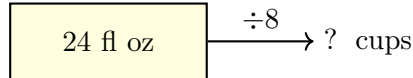
A. $\frac{11}{24}$

B. $\frac{2}{4}$

C. $\frac{2}{12}$

D. $\frac{2}{8}$

2) How many cups equal 24 fluid ounces?



(since 1 cup = 8 fl oz)

A. 3 cups

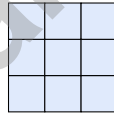
B. 4 cups

C. 2 cups

D. 6 cups

3) A rectangular prism is built with 3 layers. Each layer has a 3 by 3 array of unit cubes. Then one full layer is removed. How many unit cubes remain?

One layer



A. 18 unit cubes

B. 9 unit cubes

C. 27 unit cubes

D. 6 unit cubes

4) A rope is 3 m long. It is cut into pieces of 25 cm each. How many pieces?

Record your answer in the space provided.



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1) Subtract: $6 - 1\frac{4}{9}$.

A. $4\frac{5}{9}$

B. $4\frac{4}{9}$

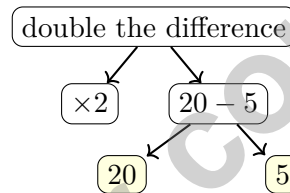
C. $5\frac{4}{9}$

D. $5\frac{5}{9}$

2) True or false: A right triangle cannot be equilateral.

 A. Always false B. False C. Sometimes true D. True

3) Which expression is equivalent to “double the difference of 20 and 5”? The tree diagram shows the structure.



A. $2 \times (20 - 5)$

B. $20 - 5 \times 2$

C. $(20 - 5) + 2$

D. $20 \times 2 - 5$

4) A storage box measures 7 inches long, 3 inches wide, and 2 inches tall. What is its volume?

 A. 21 cubic inches B. 42 cubic inches C. 14 cubic inches D. 6 cubic inches

5) Which statement is false without calculating?

A. $15 \times 8 = 8 \times 15$

B. $(4 + 7) + 9 = 4 + (7 + 9)$

C. $24 - 10 = 24 + 10$

D. $6 \times (3 + 5) = 6 \times 3 + 6 \times 5$



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 Wyoming scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice A is correct.** (5.NBT.C.2) 3×10 makes 30, which has only 1 zero. Each other choice ends with more zeros.
- Choice A is correct.** (5.NBT.C.2) Line up decimal points and subtract place by place. Subtract: $22.74 - 15.38 = 7.36$. This confirms the answer.
- Choice D is correct.** (5.NBT.D.7) $2\frac{4}{9} \approx 2$ and $3\frac{5}{6} \approx 4$. So $2\frac{4}{9} + 3\frac{5}{6} \approx 2 + 4 = 6$.
- Choice C is correct.** (5.NF.F.6) $\frac{3}{4} \times 24 = \frac{3 \times 24}{4} = \frac{72}{4} = 18$, so 18 cups of oats are needed.
- Choice A is correct.** (5.MD.I.3) Set X: $2 \times 2 \times 2 = 8$ cubic units. Set Y: $1 \times 2 \times 1 = 2$ cubic units. Since $8 > 2$, Set X gives the larger volume.
- The correct answer is 29.40.** (5.MD.G.1) Choose the operation from the story, then keep the unit with the answer. $2.45 \times 12 = 29.40$. This confirms the answer.
- Choice D is correct.** (5.MD.G.1) The base has $8 \times 3 = 24$ unit cubes. Since $72 \div 24 = 3$, the prism has 3 layers.
- Choice A is correct.** (5.MD.I.4) The tenths digit is 5. The hundredths digit is 4. Since $4 < 5$, keep tenths as 5. So 11.549 rounds to 11.5 cm.
- Choice B is correct.** (5.NBT.C.4) Common denominator is 15. $\frac{2}{5} = \frac{6}{15}$ and $\frac{1}{3} = \frac{5}{15}$. Since $6 > 5$, $\frac{2}{5} > \frac{1}{3}$.
- Choice B is correct.** (5.MD.G.1) Convert 2.5 L to mL: $2.5 \times 1000 = 2500$ mL. The container holds exactly 2,500 mL.
- The correct answer is 6480.** (5.MD.I.5A) $30 \times 18 \times 12 = 6,480 \text{ in}^3$.
- Choice C is correct.** (5.MD.I.5A) Multiplying by 1,000 moves the decimal three places right. You can think $7.83 \rightarrow 78.3 \rightarrow 783 \rightarrow 7,830$.
- The correct answer is 2.** (5.NBT.C.2) Compare: $4 = 2 \times 2$, $8 = 2 \times 4$, etc. Each B term is 2 times its A term.
- Choice C is correct.** (5.OA.B.3) The denominator increased from 7 to 14 (multiply by 2). Multiply the numerator by 2: $5 \times 2 = 10$.
- Choice A is correct.** (5.NF.F.5D) First simplify inside the parentheses: $3 + 5 = 8$. Then multiply, $2 \times 8 = 16$, and subtract from 24 to get 8.
- Choice D is correct.** (5.OA.A.1) $V = B \times h = 6 \times 8 = 48 \text{ m}^3$.
- Choice B is correct.** (5.NBT.D.7) Add: $\$3.29 + \$2.74 = \$6.03$ (hundredths: $9 + 4 = 13$, regroup; tenths: $2 + 7 + 1 = 10$, regroup; dollars: $3 + 2 + 1 = 6$).
- Choices A, B are correct.** (5.OA.A.2) A is true because 3 copies of $(6 + 4)$ can be written as 2 copies plus 1 more copy. B is true because 10 groups of 7 are greater than 10 groups of $7 - 1$. C adds an extra 9, and D leaves out one group of 5.
- Choice A is correct.** (5.NBT.C.3A) 234 small squares out of 1000 represents $\frac{234}{1000} = 0.234$.
- Choice C is correct.** (5.NBT.C.2) $4000 \div 4 = 1000$. So 4000 is 1000 times greater than 4.
- Choice C is correct.** (5.NBT.C.2) All three sides have the same number of tick marks, meaning all three sides are equal in length. A triangle with all three equal sides is equilateral.
- Choice D is correct.** (5.MD.I.5A) Work one prism at a time: $8 \times 3 \times 5 = 120$, $6 \times 2 \times 4 = 48$, and $5 \times 2 \times 1 = 10$. Add the non-overlapping volumes: $120 + 48 + 10 = 178$ cubic centimeters.
- Choice C is correct.** (5.G.J.2) Both points have the same y -coordinate (8), so they are on a horizontal line. The distance is $6 - 3 = 3$ units.
- Choice A is correct.** (5.NF.E.1) $9 - 4 = 5$ and $\frac{6}{9} - \frac{3}{9} = \frac{3}{9} = \frac{1}{3}$. Result: $5\frac{1}{3}$.
- The correct answer is 5.26.** (5.NF.E.1) Dividing by 10 moves the decimal point one place left: $52.6 \rightarrow 5.26$.
- Choice C is correct.** (5.NBT.C.1) $8 \times \frac{3}{2} = 12$. Since $\frac{3}{2} > 1$, the product is farther from zero than the starting value.
- Choice C is correct.** (5.MD.I.5A) Volume = $18 \times 12 \times 10 = 216 \times 10 = 2160 \text{ in}^3$.
- Choice A is correct.** (5.NF.F.7) $\frac{1}{3} \div 6 = \frac{1}{3} \times \frac{1}{6} = \frac{1}{18}$.
- Choice C is correct.** (5.NF.F.7) The pattern starts at 4 and adds 3 each time. To reach Figure 12, add 3 eleven times: $4 + 33 = 37$.
- Choice B is correct.** (5.OA.B.3) $2,904 \div 44 = 66$ crates. Check: $44 \times 66 = 2,904$.



Cheer Squad Final Pep Talk

Hey Math Superstar!

◇ 9 practice tests! That's a LOT of work, and you did it all! I'm cheering so loud right now you can probably hear me through this page. You've earned every clap, every hooray, and every smile. ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 9 times. That's why your confidence is real today. It's not pretend. You earned it, problem by problem. ★

Cheer Squad Roll Call

- **Effort:** 100% SHOWED UP!
- **Heart:** HUGE!
- **Skill:** STRONG and growing!
- **Spirit:** BRIGHT and bold!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I've got this. I've practiced. I'm ready." Tiny self-cheers make a big difference.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Cheerleader (Go You!)

PRACTICE MORE. ACHIEVE MORE.

Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

9

**FULL-LENGTH
PRACTICE
TESTS**

- ✓ Realistic.
- ✓ Rigorous.
- ✓ Results-Driven.

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THIS BOOK HELPS YOUR CHILD:



Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



Track Progress

Identify strengths and target areas with purposeful practice.



Achieve Success

Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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