

9

Wisconsin

Forward Exam

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

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

$$y = 2x + 1$$



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



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

$$7.2 \div 0.8 = 9$$



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



Build Confidence



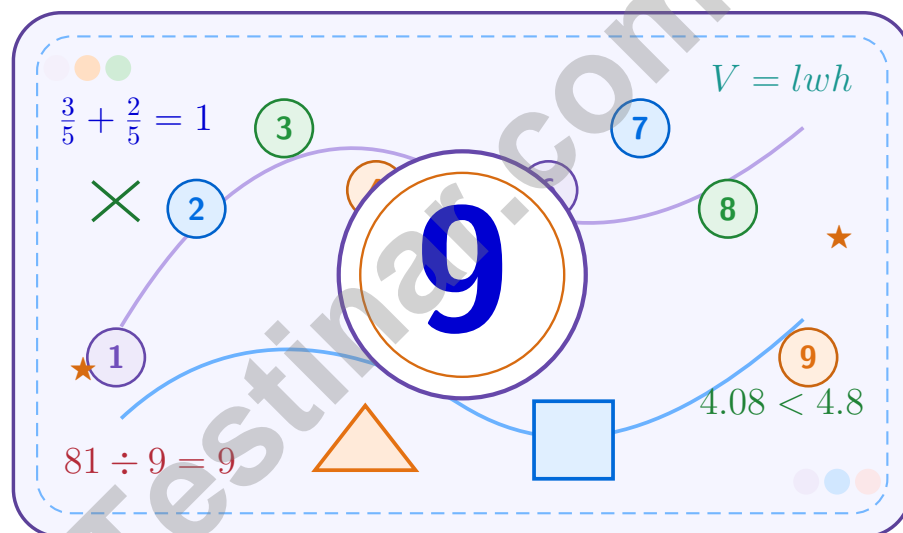
Improve Math Skills



Achieve Success

9 Wisconsin Forward Exam 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 Wisconsin Forward Exam. 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.



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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)

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 toy box has volume 500 in^3 , length 10 in, and width 10 in. What is its height?
- A. 3 in C. 5 in
 B. 4 in D. 6 in
- 2) A delivery company charges \$3.50 per package. A business ships 42 packages per week. How much does it cost per week?
- A. \$147.00 C. \$145.00
 B. \$140.00 D. \$135.00
- 3) Write the value of the digit 7 in the number 4.073.

Record your answer in the space provided.

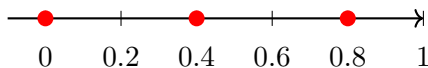
- 4) Evaluate: $56 - (7 \times 4) + 18 \div 3$
- A. 30 C. 34
 B. 32 D. 36
- 5) A school receives 7,200 pencils. They distribute them equally among 100 students. How many pencils does each student get?
- A. 0.72 C. 72
 B. 7.2 D. 720



- 6) A recipe uses 25 grams of butter. If you reduce the recipe to $\frac{4}{5}$ of its original amount, how much butter do you use?

- A. 5 grams C. 25 grams
 B. $31\frac{1}{4}$ grams D. 20 grams

- 7) On a number line, plot the decimals 0.4 and 0.8. Which is farther from 0?



- A. 0.4 C. They are equal distance
 B. Cannot tell D. 0.8

- 8) Look at the figure. Which statement about this parallelogram is true?



- A. It has two pairs of parallel sides. C. It must have four right angles.
 B. It has exactly three sides. D. It has no parallel sides.

- 9) Which fraction is equivalent to $\frac{4}{5}$ with denominator 25?

- A. $\frac{8}{25}$ C. $\frac{20}{25}$
 B. $\frac{16}{25}$ D. $\frac{24}{25}$

- 10) A baking recipe requires 250 milliliters of milk, but the measuring cup only shows liters. What is 250 mL in liters?

- A. 0.025 L C. 2.5 L
 B. 0.25 L D. 25 L



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- 1) A rectangular drawer measures 5 inches long, 5 inches wide, and 8 inches tall. What is its volume?
- A. 25 cubic inches C. 40 cubic inches
 B. 200 cubic inches D. 18 cubic inches
- 2) A recipe calls for $\frac{1}{3}$ cup of oil and $\frac{1}{2}$ cup of water. To measure both together, what common denominator would you use?
- A. 2 C. 5
 B. 3 D. 6
- 3) A science class measures 1.5 milliliters of liquid for each sample. How many milliliters are needed for 100 samples?
- A. 15 C. 1500
 B. 150 D. 15000
- 4) Find the difference: $4\frac{1}{2} - 1\frac{1}{4}$.

Record your answer in the space provided.

- 5) Which comparison is correct?
- A. $5 \times \frac{7}{8} > 5$ C. $5 \times \frac{7}{8} < 5$
 B. $5 \times \frac{7}{8} = 5$ D. $5 \times \frac{7}{8}$ is undefined



Grade 5 Mathematics Reference Materials

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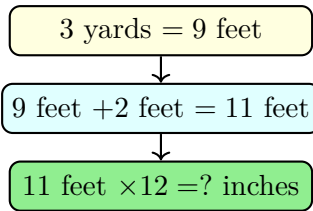
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1) How many inches are in 3 yards and 2 feet?

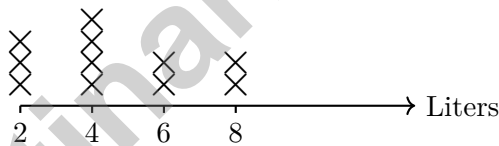


- A. 60 inches
- B. 90 inches
- C. 132 inches
- D. 180 inches

2) A student incorrectly added $\frac{1}{3} + \frac{1}{4}$ and got $\frac{2}{7}$. What is the correct answer?

- A. $\frac{7}{12}$
- B. $\frac{2}{7}$ (the student is correct)
- C. $\frac{2}{12}$
- D. $\frac{1}{12}$

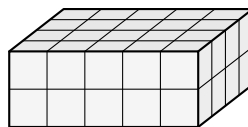
3) The line plot shows the number of liters of water each plant received:



What is the total liters of water used for all plants?

- A. 48 liters
- B. 50 liters
- C. 52 liters
- D. 54 liters

4) A prism is built with 5 rows of 4 cubes across and 2 layers high. How many unit cubes in total?



- A. 40 unit cubes
- B. 20 unit cubes
- C. 30 unit cubes
- D. 11 unit cubes



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 Wisconsin scores.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (M.5.MD.C.5) The base area is $10 \times 10 = 100$ square inches. Since $500 \div 100 = 5$, the height is 5 in.
- 2) **Choice A is correct.** (M.5.MD.C.5) Multiply: $3.50 \times 42 = 147.00$ dollars per week.
- 3) **The correct answer is 0.07.** (M.5.MD.C.5) The digit 7 is in the hundredths place, so it represents $7 \times 0.01 = 0.07$.
- 4) **Choice C is correct.** (5.NBT.A.1) The parentheses give $7 \times 4 = 28$, and the division gives $18 \div 3 = 6$. Now finish left to right: $56 - 28 + 6 = 34$.
- 5) **Choice C is correct.** (M.5.OA.A.1) Dividing by a power of 10 shifts the value to a smaller place. $7,200 \div 100 = 72$ pencils per student. This confirms the answer.
- 6) **Choice D is correct.** (5.NBT.A.2) $25 \times \frac{4}{5} = 20$ grams. Scaling by $\frac{4}{5}$ reduces the amount because the fraction is less than 1.
- 7) **Choice D is correct.** (5.NF.B.5) 0.8 is farther right on the number line than 0.4, so 0.8 is farther from 0.
- 8) **Choice A is correct.** (5.G.B.3) A parallelogram is a quadrilateral with opposite sides parallel. That means it has two pairs of parallel sides.
- 9) **Choice C is correct.** (M.5.NF.A.2) The denominator 5 is multiplied by 5 to make 25. Multiply the numerator by 5 also: $\frac{4}{5} = \frac{20}{25}$.
- 10) **Choice B is correct.** (M.5.NF.A.2) Divide milliliters by 1,000: $250 \div 1000 = 0.25$ L.
- 11) **Choice D is correct.** (5.MD.A.1) The parentheses make the two expressions different. Left: $4 \times (10 - 6) = 4 \times 4 = 16$. Right: $(4 \times 10) - 6 = 40 - 6 = 34$. Since $16 < 34$, the left side is less.
- 12) **Choice B is correct.** (5.NBT.A.3a) "Six and eight hundredths" means 6 wholes, 0 tenths, and 8 hundredths: 6.08.
- 13) **Choice C is correct.** (5.NBT.A.3a) To find the highest point, look for the largest y-coordinate. Point N at (2, 9) has y-coordinate 9, which is the largest.
- 14) **Choice A is correct.** (5.MD.B.2) Add the fractional measurements shown: $3(\frac{1}{2}) + 2(1) + 3(1\frac{1}{2}) + 2 + 2\frac{1}{2} = 12\frac{1}{2}$ hours.
- 15) **Choice D is correct.** (M.5.G.A.2) The x-coordinate (4) is the number of cars, and the y-coordinate (16) is the number of wheels. So 4 cars have 16 wheels total.
- 16) **Choice C is correct.** (5.MD.B.2) Count X marks at $\frac{1}{2}$ and $\frac{5}{8}$. That is $3 + 1 = 4$ frogs.
- 17) **Choice D is correct.** (M.5.OA.A.2) Maria earns \$15 for each lawn, so 6 lawns gives 15×6 dollars. Then add the extra \$5 from her friend.
- 18) **Choice D is correct.** (M.5.NBT.B.5) Multiply: $304 \times 2 = (300 \times 2) + (4 \times 2) = 600 + 8 = 608$.
- 19) **Choice D is correct.** (M.5.NBT.B.5) $3 \div \frac{1}{8} = 3 \times 8 = 24$ strips.
- 20) **Choices A, C are correct.** (M.5.OA.A.2) A is true because $20 + 1$ creates one extra group of 5. C is true because $100 - 1$ creates one fewer group of 9 than 100 groups. B changes the grouping, and D is equal rather than greater.
- 21) **Choice A is correct.** (M.5.NBT.B.7) LCM(5,4) = 20. $\frac{2}{5} = \frac{8}{20}$ and $\frac{1}{4} = \frac{5}{20}$. $\frac{8}{20} + \frac{5}{20} = \frac{13}{20}$.
- 22) **Choice B is correct.** (M.5.NBT.B.7) $\frac{5}{6} + \frac{1}{3} = \frac{5}{6} + \frac{2}{6} = \frac{7}{6}$ yards.
- 23) **Choice B is correct.** (5.NF.B.4b) The blue region is 1 out of 5. The red region is 3 out of 4. The overlap is 3 out of 20 squares: $\frac{1}{5} \times \frac{3}{4} = \frac{3}{20}$.
- 24) **Choice D is correct.** (5.NF.B.7c) Use total amount divided by the size of one piece. The equation is $4 \div \frac{1}{3} = n$.
- 25) **The correct answer is $\frac{3}{8}$.** (M.5.MD.C.5) $\frac{1}{4} = \frac{2}{8}$. Difference: $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$.
- 26) **The correct answer is 720 cm^3 .** (M.5.MD.C.5) $12 \times 6 \times 10 = 720 \text{ cm}^3$.
- 27) **Choice A is correct.** (M.5.MD.C.5a) $56 \times 1,000 = 56,000$. Multiplying by 1,000 shifts the value three places greater.
- 28) **The correct answer is 13.** (5.G.B.4) The rectangles are also parallelograms, so add both regions: $8 + 5 = 13$.
- 29) **Choice A is correct.** (M.5.MD.C.5a) $V = 9 \times 6 \times 7 = 378 \text{ cm}^3$.
- 30) **Choice D is correct.** (M.5.MD.C.5a) Prism 1: $2 \times 3 \times 4 = 24$. Prism 2: $1 \times 5 \times 4 = 20$. Prism 3: $3 \times 2 \times 5 = 30$. From smallest to largest, the volumes are 20, 24, 30, so the order is 2, 1, 3.



Trail Guide's Final Briefing

Brave Trail-Walker,

◇ You've walked all 9 miles of the practice trail. You've seen smooth paths, steep climbs, narrow passes, and clearings. Every step taught you something about yourself and your math skills. ◇

★ **What trail guides know:** the most important thing is to keep moving. Slow steps still get you where you need to go. You've practiced that exact pace, and now your stride is steady. ★

Trail Survey Report

- **Route Knowledge:** STRONG! You recognize different types of math problems.
- **Pacing:** STEADY! You don't rush, and you don't drag.
- **Pack Loaded:** READY! You have all the strategies you need.
- **Trail Confidence:** HIGH! You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route you know. The summit is just one steady walk away.

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 Trail Guide (Keep Walking)

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.

More practice today for a **stronger** tomorrow.



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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