7 Wisconsin Forward Exam

GRADE 5

MATHEMATICS PRACTICE TESTS

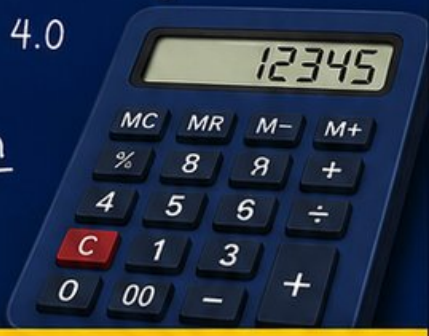
PRACTICE
PREPARE
SUCCEED

Comprehensive Standards-Aligned Review for Strong Grade 5 Math Performance

$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$

$2.4 + 1.6 = 4.0$

$A = \frac{bh}{2}$



7 FULL-LENGTH PRACTICE TESTS
Realistic style questions

STANDARDS-ALIGNED
Covers all Grade 5 standards

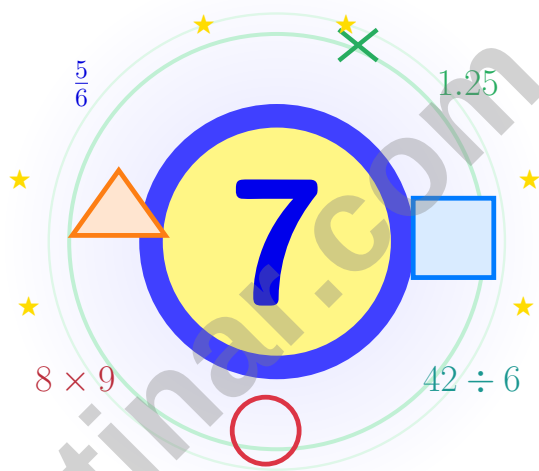
BUILD CONFIDENCE
Target weak areas and improve performance

ACHIEVE SUCCESS
Develop skills, stay prepared, excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. SUCCEED FOREVER. ★

7 Wisconsin Forward Exam Grade 5 Math Practice Tests

Seven chances to read carefully, solve smartly, and grow stronger



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Badger State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari

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Wisconsin Mathematicians, Lace Up

A seven-step trail built for steady, brave thinking

An Invitation to Grade 5 in Wisconsin

This practice book is your steady companion for seven tests, not a place to be perfect. Math is like a Wisconsin lake at sunrise – calm on top, full of life underneath, and rewarding for anyone who pays attention.

Use these seven 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 across seven rounds.

Notice

Look closely at what the problem says, shows, and asks.

Try

Pick a plan and step through it carefully.

Grow

Use every correction as a clue for what to master next.

A strong habit for Wisconsin mathematicians: 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.

A Simple Path Through Seven Tests

A simple routine that turns practice into progress

Step 1: Step 1

Warm up with a quick review.
Spend a few minutes waking up your memory before the test begins.

Step 2: Step 2

Take one full practice test.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Step 3

Check your work honestly.
Circle missed questions and notice which topics keep showing up.

Step 4: Step 4

Fix, reflect, and try again.
Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week Wisconsin Rhythm

Week 1	Take Test 1 like a Door County sunrise.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and lift fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 with calm, careful, friendly focus.

Table of Contents

Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle	$P = 2l + 2w$ or $P = 2(l + w)$
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1) Which ordered pair has y that is 10 times x?

☐ A. $(3, 30)$
☐ B. $(3, 13)$
☐ C. $(3, 3)$
☐ D. $(3, 10)$

2) Without calculating, compare: $(240 + 87) \times 4 \square (240 + 87) \times 2$

☐ A. $>$
☐ B. $<$
☐ C. $=$
☐ D. Cannot tell

3) Evaluate: $[\,(20 + 4) \div 6\,] \times 3$

☐ A. 9
☐ B. 10
☐ C. 12
☐ D. 18

4) A runner completes $\frac{1}{8}$ of a lap on her first run. If she runs this distance 5 times, what fraction of the lap has she completed?

☐ A. $\frac{5}{8}$ of a lap
☐ B. $\frac{1}{40}$ of a lap
☐ C. $\frac{5}{1}$ laps
☐ D. $\frac{1}{8}$ of a lap

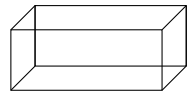
5) A rectangular fish tank has a base of 6 inches by 4 inches. If the tank is 5 inches tall, what is its volume?

☐ A. 100 in^3
☐ B. 110 in^3
☐ C. 120 in^3
☐ D. 150 in^3

6) Which fraction is in simplest form?

☐ A. $\frac{4}{8}$
☐ B. $\frac{3}{6}$
☐ C. $\frac{5}{7}$
☐ D. $\frac{2}{10}$

7) Which is the best unit for measuring the volume of a swimming pool?

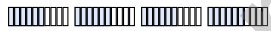


Swimming pool

☐ A. Cubic millimeters
☐ B. Cubic centimeters
☐ C. Cubic meters
☐ D. Cubic inches

8) Which model correctly shows 0.6×4?

Option A: Four groups of 0.6



Option B: Shaded 4 out of 10

☐ A. Option A
☐ B. Option B
☐ C. Neither model
☐ D. Both models

9) Find: $4 \div \frac{1}{5}$.

Record your answer in the space provided.

10) One eighth pound of nuts is shared equally among 4 bags. Which division equation finds each share?

☐ A. $4 \div \frac{1}{8} = n$
☐ B. $\frac{1}{8} \times 4 = n$
☐ C. $\frac{1}{8} \div 4 = n$
☐ D. $4 + \frac{1}{8} = n$

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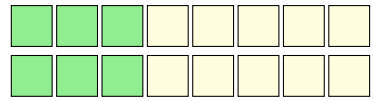
1) Rectangle divided into 8 equal parts, with 3 parts shaded per unit:



What is $2 \times \frac{3}{8}$?

☐ A. $\frac{2}{3}$
☐ B. $\frac{6}{16}$
☐ C. $\frac{5}{8}$
☐ D. $\frac{6}{8}$ or $\frac{3}{4}$

2) A garden plot is 28 square meters. If a farmer uses $\frac{3}{4}$ of it, which statement is true?

☐ A. She uses more than 28 square meters
☐ B. She uses less than 28 square meters
☐ C. She uses exactly 28 square meters
☐ D. Cannot be determined

3) A gardener has 8 quarts of water. Each plant needs $\frac{1}{4}$ quart. How many plants can be watered?

8 quarts

8 quarts split into quarter-quart portions

☐ A. 8
☐ B. 16
☐ C. 24
☐ D. 32

4) Find: 6×10^4.

Record your answer in the space provided.

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1) A factory has 1 meter of wire for light fixtures. Each fixture uses $\frac{1}{10}$ meter of wire. How many fixtures can be wired?

☐ A. 5 fixtures
☐ B. 10 fixtures
☐ C. 15 fixtures
☐ D. 20 fixtures

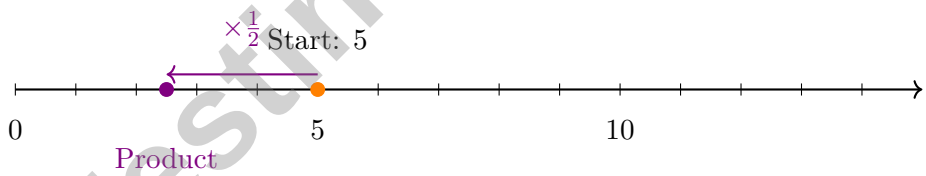
2) A cereal box has a volume of 288 in^3. The base is 8 in × 6 in. What is the height?

☐ A. 5 in
☐ B. 8 in
☐ C. 7 in
☐ D. 6 in

3) Write 10^4 as a standard number.

Record your answer in the space provided.

4)



Where does the product land when 5 is scaled by $\frac{1}{2}$?

☐ A. At 1
☐ B. At $2\frac{1}{2}$
☐ C. At 5
☐ D. At 10

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1) Identify the error in this work: $6.82 - 3.45 = 3.27$.

☐ A. Decimal points not aligned.
☐ B. Tenths column computed wrong.
☐ C. Hundredths column computed wrong.
☐ D. No error.

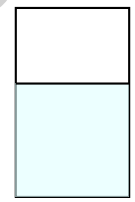
2) Coordinate Pattern:

x	y
1	2
2	5
3	8
4	11

Which rule describes the relationship?

☐ A. Multiply the input by 3, then subtract 1
☐ B. Add 1 to the input
☐ C. Double the input, then add 1
☐ D. Multiply the input by 4, then subtract 2

3) A water tank is filled to $\frac{3}{5}$ of its capacity. If the tank holds 50 gallons total, how many gallons are in the tank?



$\frac{3}{5}$ full

50 gallons

☐ A. 10 gallons
☐ B. 20 gallons
☐ C. 30 gallons
☐ D. 40 gallons

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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice A is correct.** 5.G.A.2 If y is 10 times x, multiply the x-value by 10. For $x = 3$, $3 \times 10 = 30$, so $(3, 30)$ fits.
2) **Choice A is correct.** M.5.OA.A.2 Both products use the same factor, $(240 + 87)$. Four copies of that amount are greater than two copies.
3) **Choice C is correct.** M.5.OA.A.1 The parentheses give $20 + 4 = 24$. Then $24 \div 6 = 4$, and $4 \times 3 = 12$.
4) **Choice A is correct.** M.5.NF.B.6 Repeated addition: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = 5 \times \frac{1}{8} = \frac{5}{8}$ of a lap.
5) **Choice C is correct.** M.5.MD.C.5a Base area $= 6 \times 4 = 24$ in^2. Volume $= 24 \times 5 = 120$ in^3.
6) **Choice C is correct.** M.5.NF.A.2 Check: $\frac{4}{8}$ reduces to $\frac{1}{2}$; $\frac{3}{6}$ reduces to $\frac{1}{2}$; $\frac{5}{7}$ has GCF=1 (simplest); $\frac{2}{10}$ reduces to $\frac{1}{5}$.
7) **Choice C is correct.** M.5.MD.C.3b A swimming pool is very large. Cubic meters is an appropriate unit. Cubic millimeters and centimeters are too small; cubic inches are also small.
8) **Choice A is correct.** 5.NBT.B.5 0.6×4 means four groups of 0.6. Option A shows 0.6 four times, which is 2.4 in all.
9) **The correct answer is 20.** M.5.NF.B.7b Each whole contains 5 one-fifth pieces. With 4 wholes, $4 \times 5 = 20$, so there are 20 fifths in all.
10) **Choice C is correct.** 5.NF.B.7c The unit fraction is the amount being shared, so divide $\frac{1}{8}$ by 4. The equation is $\frac{1}{8} \div 4 = n$.
11) **Choice A is correct.** M.5.G.A.2 The first coordinate, 50, matches the x-axis label: gallons used. The second coordinate, 400, matches the y-axis label: miles traveled. So the point means miles traveled is 400 when gallons used is 50.
12) **The correct answer is 21.** 5.NF.B.5 Since $\frac{6}{7} < 1$, multiplying 21 by $\frac{6}{7}$ gives a value less than 21. So 21 is larger.
13) **Choice B is correct.** 5.G.A.1 Point A is located 2 units right (x-coordinate) and 8 units up (y-coordinate), so it is at $(2, 8)$.
14) **Choice C is correct.** 5.MD.B.2 Count X marks at 4, $4\frac{1}{2}$, and 5 inches. That is $2 + 1 + 2 = 5$ ribbon lengths that are 4 inches or longer.
15) **The correct answer is 39.2.** M.5.MD.C.5 Choose the operation from the story, then keep the unit with the answer. $5.6 \times 7 = 39.2$ km. This confirms the answer.
16) **Choice C is correct.** M.5.MD.A.1 Number of sections: $72 \div 8 = 9$. Posts needed: $9 + 1 = 10$ (one at each end and one at each division between sections).
17) **Choice B is correct.** M.5.NF.B.5a $\frac{2}{3} \times \frac{3}{4} = \frac{2 \times 3}{3 \times 4} = \frac{6}{12}$, which simplifies to $\frac{1}{2}$.
18) **Choice A is correct.** 5.NBT.A.3b All ones digits are equal. Compare tenths and hundredths: $1.22 > 1.21 > 1.20 > 1.02$, and 1.2 has the same value as 1.20.
19) **Choice B is correct.** M.5.MD.C.5a P: $10 \times 5 \times 4 = 200$. Q: $8 \times 6 \times 4 = 192$ (less than 200). R: 225. S: 210. Only Q is less than 200.
20) **Choice D is correct.** 5.NBT.A.2 Multiplying by 10^2 means multiplying by 100, so the value becomes 100 times as large.
21) **Choices A, B are correct.** 5.NBT.A.2 $45 \times 100 = 4500$ and $450 \times 10 = 4500$. C equals 45,000, and D equals 450.
22) **Choice A is correct.** 5.NF.B.4b Area $= \frac{2}{3} \times \frac{3}{5} = \frac{6}{15}$ square meters.
23) **Choice A is correct.** 5.G.B.3 A quadrilateral with two pairs of parallel sides and four right angles is a rectangle. Since not all sides are the same length, it is not a square.
24) **Choice C is correct.** 5.NBT.A.2 $0.004 \times 10000 = 40$ (move decimal 4 places right). The exponent is 4.
25) **Choice A is correct.** 5.MD.B.2 At 30 minutes: 3 marks. At 60 minutes: 1 mark. Difference: $3 - 1 = 2$ more students.
26) **Choice B is correct.** M.5.NBT.A.4 The hundredths place is 7. The thousandths place is 8. Since $8 \geq 5$, round up from 7 to 8. So 5.678 rounds to 5.68.
27) **Choice D is correct.** M.5.MD.C.5a $V = B \times h = 6 \times 8 = 48$ m^3.
28) **Choice A is correct.** M.5.NF.A.1 $5\frac{1}{2} = 5\frac{2}{4}$, and $3\frac{3}{4}$ is already in fourths. Then regroup: $4\frac{6}{4} - 3\frac{3}{4} = 1\frac{3}{4}$.
29) **The correct answer is 21.** M.5.OA.A.1 First simplify the parentheses: $6 + 2 = 8$. Then $48 \div 8 = 6$ and $5 \times 3 = 15$, so the total is $6 + 15 = 21$.

Dear Problem Solver,

⋆ Finishing seven tests means you practiced many types of problems—fractions, decimals, geometry, word problems, and more. That variety is exactly how you build strong, flexible math thinking. ⋆

◇ **A smart secret:** strong students use strategies, not speed. When you choose a plan, show steps, and check your work, you give yourself the best chance to earn points. ◇

Four Helpful Moves

- **Circle the question:** what are you finding?
- **Underline the data:** what numbers and facts matter?
- **Write a quick plan:** add, subtract, multiply, divide, or draw?
- **Do a reasonableness check:** is the answer too big or too small?

You are ready to use these moves on test day—because you practiced them again and again.

I love hearing student success stories. Email me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Keep Going!)

PRACTICE TODAY.
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PRACTICE
PREPARE
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