

5 FULL-LENGTH Wisconsin Forward Exam

GRADE 5 MATH

★ PRACTICE TESTS ★



5 FULL-LENGTH
PRACTICE TESTS



COMPLETE
STANDARDS
REVIEW



SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!

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



$$12 \times 3 = 36$$



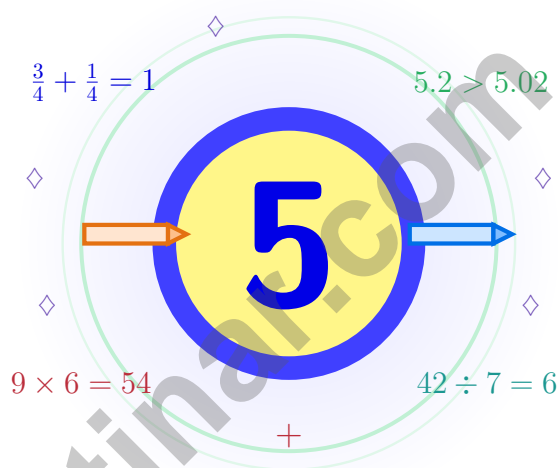
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Wisconsin Forward Exam Grade 5 Math Practice Tests

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



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Badger State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Step into the Quest, Wisconsin

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

To Wisconsin Students Who Love a Puzzle

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Math is like a Wisconsin lake at sunrise – calm on top, full of life underneath, and rewarding for anyone who pays attention.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Read Slow

Read every word, twice
when needed.

Choose Smart

Pick the operation,
sketch, or table that fits.

Grow

Lock the lesson in by
reflecting after each
problem.

A strong quest habit for Wisconsin: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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How This Book Wants to Help

A simple routine that turns five tests into real growth

Step 1: Set Up

Pencil ready, distractions gone.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Work the Test

Take a full test like the real day.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Look Back

Walk through your answers without rushing.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Climb Higher

Pick one or two skills to sharpen next.
Read the explanation, repair the work, and carry that lesson into the next test.

A Five-Week Wisconsin Quest Map

Week	Mission Focus
Week 1	Take Test 1 like a Door County sunrise.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and lift fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful, friendly 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)

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

1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

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) When 4 is scaled by $\frac{3}{2}$, what is the product?

A. 2

C. 6

B. 4

D. 8

2) A board is $\frac{5}{6}$ m long. Three identical boards are joined end to end. What is the total length?

Record your answer in the space provided.

3) Find: 3.6×5 .

Record your answer in the space provided.

4) Daniel buys a rug that costs $\frac{3}{10}$ of his monthly savings. He also buys a lamp for $\frac{1}{5}$ of his savings. What fraction is spent on both items?

A. $\frac{4}{15}$

C. $\frac{4}{10}$

B. $\frac{1}{2}$

D. $\frac{7}{10}$



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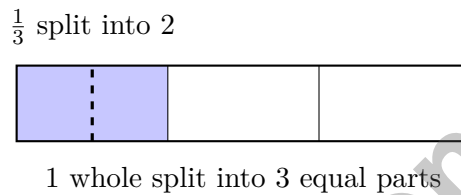


1) A recipe calls for $\frac{3}{4}$ cup of flour. Maria is making $\frac{2}{3}$ of the recipe. How much flour does she need?

- A. $\frac{1}{2}$ cup
- B. $\frac{9}{12}$ cup

- C. $\frac{1}{4}$ cup
- D. $\frac{5}{8}$ cup

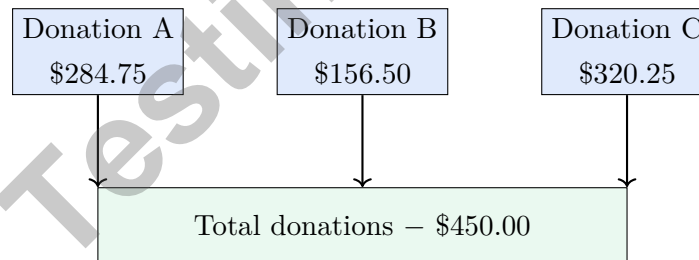
2) The model shows $\frac{1}{3}$ of a whole split into 2 equal parts. What fraction of the whole is each small part?



- A. $\frac{1}{3}$
- B. $\frac{1}{6}$

- C. $\frac{1}{2}$
- D. $\frac{1}{5}$

3) A library fundraiser collected three donations: \$284.75, \$156.50, and \$320.25. The library spends \$450.00 on new books. How much money is left?



- A. \$301.50
- B. \$761.50

- C. \$321.50
- D. \$311.50



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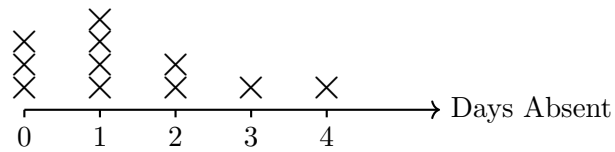
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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1) The line plot shows the number of days students were absent from school:



Which value appears most often?

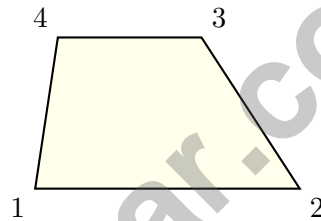
A. 0 days

C. 2 days

B. 1 day

D. 3 days

2) Look at the shape. How many obtuse angles does it have?



A. 0

C. 2

B. 1

D. 4



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.NF.B.5) $4 \times \frac{3}{2} = 6$. Since $\frac{3}{2} > 1$, the product is larger than the starting value.
- 2) **The correct answer is $2\frac{1}{2}$ m.** (5.NF.B.3) $3 \times \frac{5}{6} = \frac{15}{6} = \frac{5}{2} = 2\frac{1}{2}$ m.
- 3) **The correct answer is 18.** (5.NBT.B.5) $36 \times 5 = 180$. Place the decimal one digit from the right: $18.0 = 18$.
- 4) **Choice B is correct.** (5.NF.A.2) Convert to tenths: $\frac{3}{10} + \frac{1}{5} = \frac{3}{10} + \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$.
- 5) **The correct answer is 340.** (5.NBT.A.2) Multiplying by 100 moves the decimal point two places to the right: $3.4 \rightarrow 340$.
- 6) **Choice D is correct.** (M.5.G.A.2) The first coordinate, 6, matches the x-axis label: minutes. The second coordinate, 72, matches the y-axis label: cookies baked. So the point means cookies baked is 72 when minutes is 6.
- 7) **Choice A is correct.** (5.G.A.2) Starting at (0,0), adding 2 to x and 1 to y each time gives (0,0), (2,1), (4,2), (6,3). Graph A shows those points.
- 8) **Choice D is correct.** (5.NBT.A.2) $10^2 = 100$. Dividing by 100 moves the decimal point two places to the left: $12,000 \div 100 = 120$.
- 9) **Choice D is correct.** (5.NBT.A.3b) All have 45 ones. Tenths: 45.506 has 5, 45.56 has 5, 45.065 has 0. Between first two, hundredths: 45.506 has 0, 45.56 has 6. So $45.56 > 45.506 > 45.065$.
- 10) **Choice A is correct.** (5.G.B.4) A square has all equal sides (rhombus property) and all right angles (rectangle property), so a square IS both a rhombus and a rectangle.
- 11) **Choice D is correct.** (5.NF.B.7c) Start with one unit fraction, $\frac{1}{5}$, and share it into 6 equal parts. Each part is $\frac{1}{5} \div 6 = \frac{1}{30}$ of the whole.
- 12) **Choice B is correct.** (M.5.MD.C.3b) Compare the volumes by subtracting: $120 - 80 = 40$. The first container holds 40 cubic centimeters more.
- 13) **Choice A is correct.** (5.MD.A.1) Since 1 gallon = 16 cups, multiply 2 by 16: $2 \times 16 = 32$ cups.
- 14) **Choice C is correct.** (5.NF.B.7c) Use total amount divided by the size of one piece. The equation is $5 \div \frac{1}{4} = n$.
- 15) **Choice C is correct.** (M.5.NBT.B.7) LCM(10,4) = 20. $\frac{7}{10} = \frac{14}{20}$ and $\frac{1}{4} = \frac{5}{20}$. $\frac{14}{20} + \frac{5}{20} = \frac{19}{20}$.
- 16) **Choice B is correct.** (M.5.NF.B.7b) $3 \div \frac{1}{2} = 3 \times 2 = 6$. She gets 6 pieces.
- 17) **Choice C is correct.** (M.5.OA.A.1) Simplify both parentheses first: $8 + 2 = 10$ and $5 - 1 = 4$. Then go left to right: $10 \times 4 = 40$, and $40 \div 5 = 8$.
- 18) **Choice B is correct.** (5.MD.B.2) Add the ribbon lengths shown: $2\left(\frac{1}{4}\right) + 3\left(\frac{1}{2}\right) + 2\left(\frac{3}{4}\right) + 1 + 1\frac{1}{4} = 5\frac{3}{4}$ yards.
- 19) **Choice B is correct.** (5.G.A.2) Point N is 4 units right and 3 units up from the origin, placing it at (4,3).
- 20) **Choices A, B are correct.** (M.5.MD.C.5) The base area is $4 \times 3 = 12$ square units. Then $48 \div 12 = 4$, so the height is 4 units. C and D come from mixing up the height with the volume.
- 21) **Choice D is correct.** (M.5.NBT.A.4) The tenths digit is 3. The hundredths digit is 4. Since $4 < 5$, keep tenths as 3: $11.348 \rightarrow 11.3$. Maya is correct.
- 22) **Choice C is correct.** (5.MD.C.4) Volume = $6 \times 2 \times 2 = 24$ unit cubes.
- 23) **The correct answer is about 1.5.** (M.5.NF.B.6) $\frac{7}{8} \approx 1$ and $\frac{4}{9} \approx \frac{1}{2}$, so the estimate is $1\frac{1}{2}$. Accept $1\frac{1}{2}$, 1.5, or a clearly equivalent benchmark estimate.
- 24) **Choice A is correct.** (M.5.NF.A.1) Convert to sixths: $5\frac{2}{3} = 5\frac{4}{6}$. Borrow 1 to get $4\frac{10}{6} - 1\frac{5}{6} = 3\frac{5}{6}$.
- 25) **Choice D is correct.** (M.5.MD.A.1) Total used: 3 feet 4 inches + 2 feet 8 inches = 6 feet 0 inches = 6 feet. Remaining: 8 feet 6 inches - 6 feet = 2 feet 6 inches.
- 26) **Choice D is correct.** (5.NF.B.4b) The overlap has 8 squares (shown as $\frac{2}{6} \times \frac{4}{8}$) out of 48 total, so the product is $\frac{8}{48}$.
- 27) **Choice C is correct.** (5.NF.B.5) Multiplying by 1 always gives the same number. So $16 \times 1 = 16$.
- 28) **Choice D is correct.** (5.MD.C.5c) Find each part first: Prism A is $9 \times 4 \times 2 = 72$ cubic meters, and Prism B is $6 \times 2 \times 1 = 12$ cubic meters. Because the parts do not overlap, add them: $72 + 12 = 84$ cubic meters.
- 29) **Choice A is correct.** (M.5.NF.A.2) LCD of 4 and 6 is 12. $\frac{3}{4} = \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$ and $\frac{1}{6} = \frac{1 \times 2}{6 \times 2} = \frac{2}{12}$.



Flight Log Entry

Hello, Ace Pilot!

★ Flight certification complete! You've successfully piloted through five complete training missions, navigating mathematical turbulence and landing solutions with expert precision like a certified pilot! Each test was a flight through different conditions, and you demonstrated excellent navigation skills, situational awareness, and steady control throughout. You're cleared for your important test day flight!

★

◇ **Here's what experienced pilots understand:** they complete hundreds of hours of flight training before flying solo. They practice procedures until they become automatic responses. You've logged those training hours through these five tests! Your mathematical flight skills have become so developed that you'll navigate test day smoothly and confidently! ◇

Pre-Flight Clearance Report

- **Navigation Systems:** All problem-solving instruments calibrated and functioning!
- **Weather Assessment:** You can handle any mathematical conditions that arise!
- **Emergency Procedures:** You know how to respond when encountering difficult questions!
- **Flight Approved:** Tower clears you for test day takeoff!

Remember this aviation principle: pilots stay calm because they trust their training. When you encounter turbulence on test day, remember your five training missions. You've already experienced challenging questions and navigated successfully through them. Use your instruments (strategies), trust your training, and fly confidently toward your destination!

Want to share flight logs or discuss interesting mathematical air traffic patterns? Send transmissions to reza@testinar.com. Your control tower is listening!

Reza Nazari & Jay Daie

Your Math Teacher and Practice Partner

5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

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



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Strengthen key math skills through a wide variety of practice questions.



WORD PROBLEMS

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FULL ANSWER KEY

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



PRACTICE MORE. LEARN BETTER. SUCCEED ANYWHERE.



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with consistent
practice



Improve Accuracy
and problem-
solving skills



Time Management
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