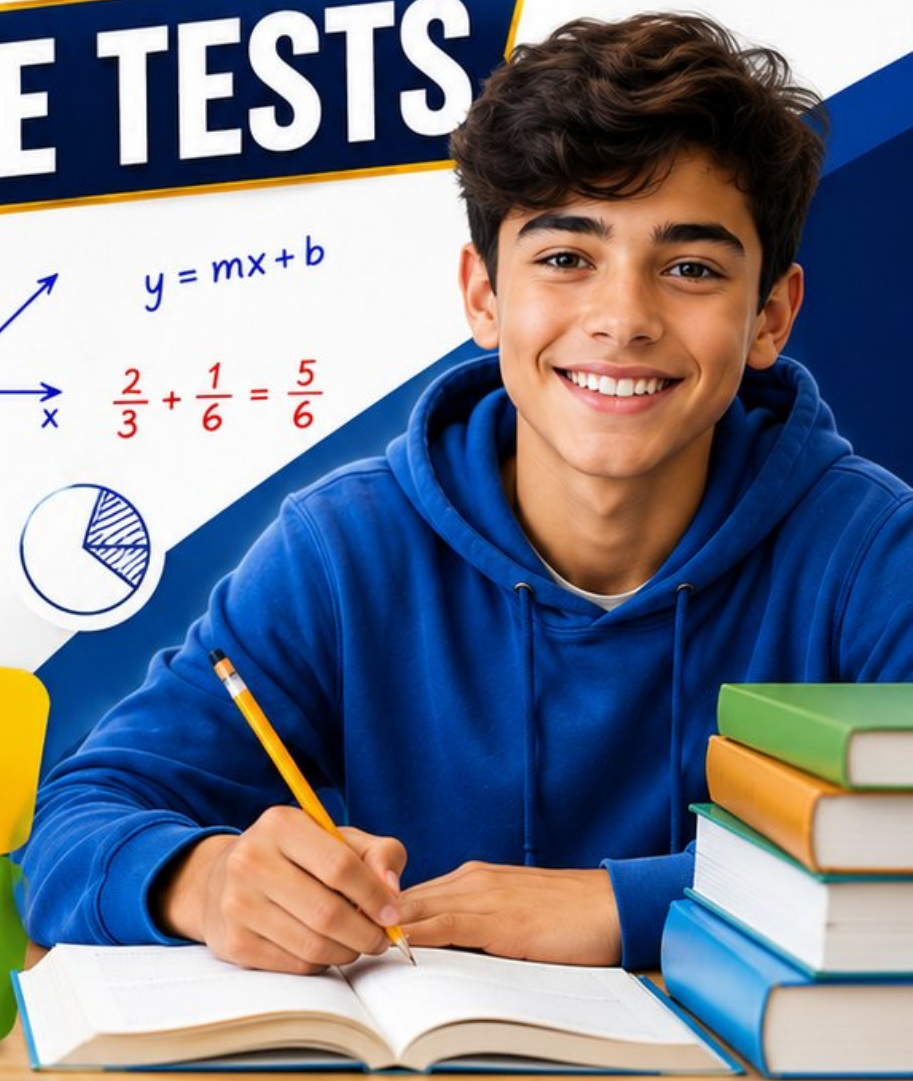
5 Wisconsin Forward Exam

GRADE 7 MATH

PRACTICE TESTS



Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs

5 PRINTED TESTS

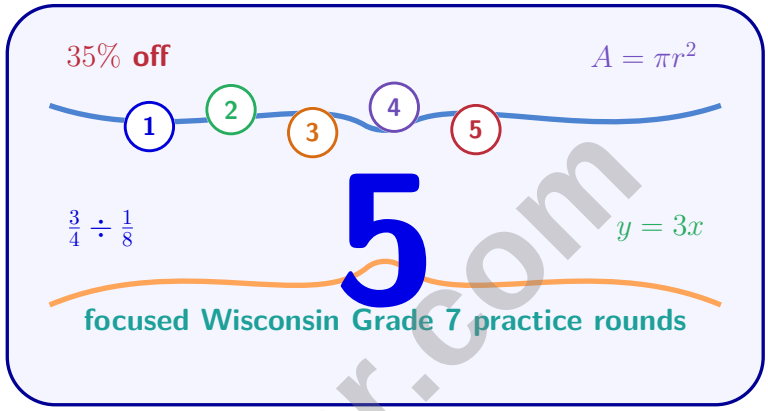
2 ONLINE TESTS

USE THESE TWO ADDITIONAL ONLINE PRACTICE TESTS FOR EXTRA REVIEW AFTER THE PRINTED TESTS IN THIS BOOK.

- Build Confidence
- Strengthen Math Skills
- Detailed Answers & Explanations
- Improve Test Performance

5 Wisconsin Forward Exam Grade 7 Math Practice Tests

Grade 7 Standards Practice with Review, Keys, and Worked Help



Five complete 40-question Grade 7 Forward Exam practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari

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Welcome, Wisconsin Grade 7 Problem Solver!

Five focused rounds for sharper Forward Exam math thinking

This book gives you five full Grade 7 Forward Exam math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Wisconsin Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

How to Use This Book

A five-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Wisconsin review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.

What Is Inside?

Five Forward Exam tests, 200 questions, and a focused review path

Part	What You Will Practice
Tests 1–2	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 3–5	Expressions, equations, inequalities, scale drawings, geometry, data, probability, and multi-step problem solving.
Answer Pages	Compact keys and explanations that show why each answer works.

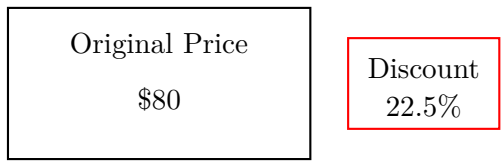
The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.

Table of Contents

1) A pizza delivery service adds a $2.50 delivery fee to orders under $25 and a $4.00 fee to orders $25 or more. What is the total cost of a $32 order with the delivery fee?

☐ A. $32.00
☐ B. $34.50
☐ C. $36.00
☐ D. $36.40

2)



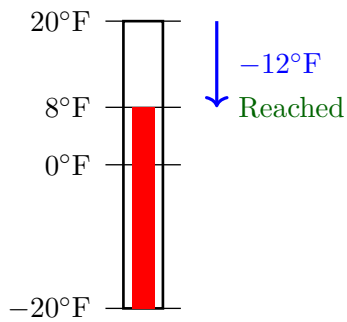
A book store displays a book with original price $80 and a discount tag showing 22.5% off. What is the sale price?

☐ A. $57.50
☐ B. $18
☐ C. $61.00
☐ D. $62

3) A comparison of two loans shows: Loan 1 costs $240 in interest on $3000 for 2 years, while Loan 2 costs $360 in interest on $3000 for 2 years. How much higher is Loan 2's interest rate than Loan 1's?

☐ A. 8%
☐ B. 4%
☐ C. 6%
☐ D. 2%

4) A thermometer starts at 20°F. After adding −12°F, which temperature is reached?



Which shows the result of $20 + (-12)$**?**

☐ A. 20°F
☐ B. −20°F
☐ C. −4°F
☐ D. 8°F

5) Simplify: $-5 - 3$

☐ A. −8
☐ B. −2
☐ C. 2
☐ D. 8

6) A sector measuring 162° represents what percent of the circle?

☐ A. 25%
☐ B. 40%
☐ C. 45%
☐ D. 50%

7) A car travels at a constant speed. After 2 hours, it has gone 110 miles. After 5 hours, it has gone 275 miles. Is the distance proportional to time?

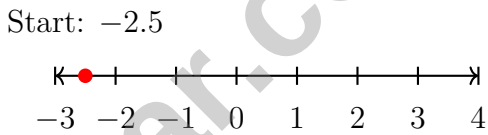
☐ A. Cannot determine
☐ B. No
☐ C. Only after 3 hours
☐ D. Yes

8) An online retailer sells items at a constant unit price. A customer purchases 7 items for \$91. What is the price per item?

☐ A. \$7
☐ B. \$637
☐ C. \$84
☐ D. \$13

9) A recipe calls for 2 cups of flour for every 5 cups of milk. What is the constant of proportionality from milk to flour?

10) Use the number line to find $-2.5 + 4.7$.



☐ A. -7.2
☐ B. -2.2
☐ C. 2.2
☐ D. 7.2

11) On a map where 2.5 cm represents 50 km, how many kilometers does 1 cm represent?

1) What is the GCF of $10a$ and $15ab$?

☐ A. $5a$
☐ B. $10a$
☐ C. $15a$
☐ D. $5ab$

2) Two researchers took samples to estimate tree health in a forest. Which statement about their proportions is CORRECT?

- Researcher 1: 8 healthy trees out of 32 sampled
- Researcher 2: 12 healthy trees out of 48 sampled

☐ A. Researcher 1 found more healthy trees
☐ B. Researcher 2 found a higher proportion of healthy trees
☐ C. Both found the same proportion of healthy trees
☐ D. Researcher 1's sample is more reliable

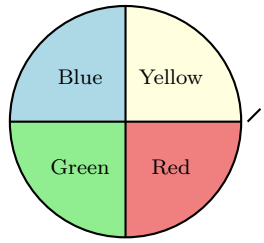
3) What percent of 120 is 30?

☐ A. 15%
☐ B. 20%
☐ C. 25%
☐ D. 30%

4) A vending machine dispenses 200 ounces of soda in 4 seconds. What is the rate (constant of proportionality) in ounces per second?

☐ A. $k = 0.02$
☐ B. $k = 200$
☐ C. $k = 4$
☐ D. $k = 50$

5)



The spinner above has 4 equal sections. If it is spun 80 times and the results are recorded, approximately how many times would you expect to see the blue section?

☐ A. 10 times
☐ B. 15 times
☐ C. 20 times
☐ D. 25 times

6) Which inequality represents "a number decreased by 10 is less than or equal to 25"?

☐ A. $n - 10 \leq 25$
☐ B. $n - 25 \leq 10$
☐ C. $10 - n \leq 25$
☐ D. $n \leq 35$

7)

Scale 1 cm : 2 m

What is the perimeter of the actual rectangle?

☐ A. 16 m
☐ B. 32 m
☐ C. 64 m
☐ D. 128 m

1) An error in a dataset is corrected: 28 is removed and 82 is added. Comparing the old and new stem-and-leaf plots, which measure of central tendency is most likely to change?

☐ A. Mode
☐ B. Median
☐ C. Mean
☐ D. Range

2) Solve: $x - (-4) < 8$

☐ A. $x < 4$
☐ B. $x < 12$
☐ C. $x > 4$
☐ D. $x < 8$

3) A football team loses 7 yards on one play and gains 13 yards on the next. What is the net change in yards?

☐ A. -20 yards
☐ B. -6 yards
☐ C. 6 yards
☐ D. 20 yards

4) Simplify: $12p^{11} \div 4p^{6}$

☐ A. $3p^{5}$
☐ B. $3p^{17}$
☐ C. $8p^{5}$
☐ D. $3p^{66}$

5) An online store charges \$9.99 per item plus a fixed shipping cost of \$5.99. If the total order is \$54.95, how many items were ordered? Which equation is correct?

☐ A. $5.99x + 9.99 = 54.95$
☐ B. $9.99 + 5.99x = 54.95$
☐ C. $9.99x + 5.99 = 54.95$
☐ D. $x(9.99 + 5.99) = 54.95$

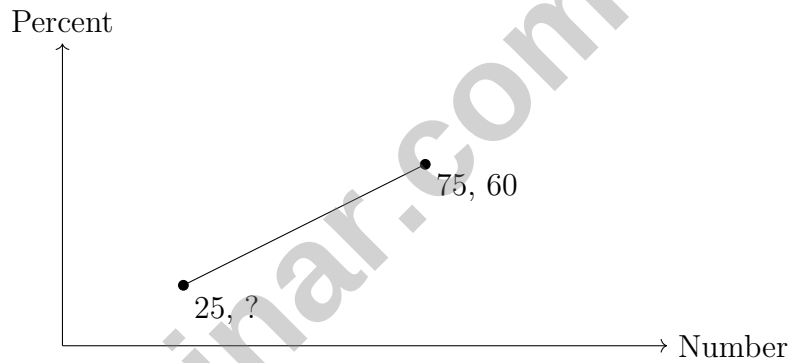
6) A shirt costs \$35 and socks cost \$4 per pair. If you buy 1 shirt and p pairs of socks for a total of \$51, how many pairs of socks did you buy?

☐ A. 2 pairs
☐ B. 4 pairs
☐ C. 6 pairs
☐ D. 8 pairs

7) A map shows two cities that are $\frac{3}{4}$ inch apart. The scale is $\frac{1}{2}$ inch : 10 miles. What is the actual distance between the cities?

☐ A. 10 miles
☐ B. 15 miles
☐ C. 20 miles
☐ D. 30 miles

8)



On a double number line, the point $(75, 60)$ is marked. What percent corresponds to 25?

☐ A. 15%
☐ B. 30%
☐ C. 25%
☐ D. 20%

9) Solve for x: $6(x - 2) = 36$

Wisconsin Forward Exam Grade 7 Practice Test Answer Keys

How to use this section with a Grade 7 student:

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Wisconsin Forward Exam practice test.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice C is correct.** 7.RP.3 Order is \$32 ≥ \$25, so delivery fee is \$4.00. Total = 32 + 4 = \$36.00.
2) **Choice D is correct.** 7.RP.3 Discount = 0.225 × 80 = \$18. Sale price = 80 − 18 = \$62.
3) **Choice D is correct.** 7.RP.3 Loan 1 rate: $240 = 3000 \times r \times 2 \Rightarrow r = 0.04 = 4\%$. Loan 2 rate: $360 = 3000 \times r \times 2 \Rightarrow r = 0.06 = 6\%$. Difference: $6\% - 4\% = 2\%$.
4) **Choice D is correct.** 7.NS.1b $20 + (-12) = 8$. Starting at 20° and decreasing by 12° gives 8°.
5) **Choice A is correct.** 7.NS.1-7.NS.3 When subtracting from a negative number, move further left on the number line: $-5 - 3 = -8$.
6) **Choice C is correct.** 7.SP.1-7.SP.4 $162° \div 360° \times 100 = 45\%$.
7) **Choice D is correct.** 7.RP.1-7.RP.3 Check the constant-of-proportionality across rows: $\frac{110}{2} = 55$ mph and $\frac{275}{5} = 55$ mph. The ratio is constant, so distance is proportional to time.
8) **Choice D is correct.** 7.RP.1-7.RP.3 Unit price = \$91 ÷ 7 = \$13 per item.
9) **The correct answer is $\frac{2}{5}$.** 7.RP.1-7.RP.3 The ratio flour to milk is 2 : 5, so the constant is $\frac{2}{5}$.
10) **Choice C is correct.** 7.NS.1-7.NS.3 Starting at −2.5 and moving right 4.7 units: $-2.5 + 4.7 = 2.2$.
11) **The correct answer is 20 .** 7.RP.1-7.RP.3 If 2.5 cm = 50 km, then 1 cm = 50 ÷ 2.5 = 20 km.
12) **Choice B is correct.** 7.NS.2d A fraction terminates if the denominator has only factors of 2 and/or 5. Dividing: 2 ÷ 5 = 0.4. The others contain factors like 3 or 7.
13) **Choice A is correct.** 7.NS.1-7.NS.3 A drop of 2.5°F is −2.5. Over 4 hours: $4 \times (-2.5) = -10$°F.
14) **Choice C is correct.** 7.EE.1-7.EE.2 Substitute: $\frac{7-1}{3} + 2 = \frac{6}{3} + 2 = 2 + 2 = 4$.
15) **Choice D is correct.** 7.RP.1-7.RP.3 Painter A: $\frac{1/2}{1/3} = \frac{1}{2} \times 3 = \frac{3}{2}$ walls/day. Painter B: $\frac{2/3}{1/2} = \frac{2}{3} \times 2 = \frac{4}{3}$ walls/day. A is faster: $\frac{3}{2} = 1.5 > \frac{4}{3} \approx 1.33$.
16) **Choice C is correct.** 7.RP.3 Returns: $\frac{1}{10} \times 500 = 50$. Kept: 500 − 50 = 450. Note: $\frac{1}{10} = 0.1 = 10\%$.
17) **Choice A is correct.** 7.RP.3 Increase = (\$2,500 − \$2,400) ÷ \$2,400 = \$100 ÷ \$2,400 ≈ 0.0417 = 4.17% ≈ 4.2%.
18) **Choice B is correct.** 7.NS.1-7.NS.3 $m = (-7) \times (-4) = 28$.
19) **The correct answer is 33.3% .** 7.RP.3 $\frac{1}{3} = 0.333\ldots = 33.\overline{3}\%$. Approximately 33% of the students attend the science club.
20) **The correct answer is A,C.** 7.SP.1-7.SP.4 Sample 1: $\frac{48}{200} = 0.24$; Sample 2: $\frac{36}{150} = 0.24$; Sample 3: $\frac{60}{250} = 0.24$. All are equal, so A is correct. These proportions can be used to estimate the full population (C). B is false (all equal), D is misleading, and E contradicts the actual data.
21) **Choice C is correct.** 7.NS.1-7.NS.3 Items sold = 0.35 × 800 = 280 items. Remaining: 800 − 280 = 520 items.
22) **Choice D is correct.** 7.NS.1-7.NS.3 $5.0 \times 10^3 = 5{,}000$. Check: $0.05 \times 10^3 = 0.05 \times 1{,}000 = 50 \neq 5{,}000$.
23) **Choice B is correct.** 7.NS.1-7.NS.3 Perfect squares are numbers like 4, 9, 16, 25 that are products of a whole number times itself. Since 5 × 5 = 25, it is a perfect square.
24) **Choice A is correct.** 7.EE.1-7.EE.2 $\gcd(12, 18) = 6$, so $12m + 18n = 6(2m + 3n)$.
25) **Choice D is correct.** 7.SP.5-7.SP.8 $\frac{2}{7} + \frac{2}{7} + \frac{3}{7} = \frac{7}{7} = 1$. All probabilities are in $[0, 1]$, so this is valid.
26) **Choice A is correct.** 7.G.4-7.G.6 Large rectangle: $20 \times 15 = 300$ m^2. Three removed sections: $3 \times (3 \times 2) = 18$ m^2. Remaining: $300 - 18 = 282$ m^2.
27) **Choice A is correct.** 7.SP.1-7.SP.4 The smallest stem is 4 with the smallest leaf 2, giving 42.
28) **Choice D is correct.** 7.RP.1-7.RP.3 Distance = speed × time = 15 × 2.5 = 37.5 miles.
29) **Choice D is correct.** 7.RP.3 Checking accounts are designed for frequent transactions; savings accounts earn interest and encourage long-term saving with withdrawal limits.
30) **Choice D is correct.** 7.RP.3 From the table, year 1 gives \$972 (below \$1,000) and year 2 gives \$1,049.76 (first to exceed \$1,000).

Author's Note

A Page for Persistence

Hi, Persistent Problem Solver!

◇ Some Grade 7 questions ask you to hold several ideas in your mind at once. That can feel hard, and that is exactly why practice matters. ◇

⋆ **Remember this:** You showed persistence by continuing through the set. That habit is powerful because difficult problems often open after one more good attempt. You practiced across 5 full Grade 7 practice tests, and that repeated effort matters. ⋆

Persistence Tools

- **Try a Smaller Case:** Use an easier number to see the pattern.
- **Draw It:** Make the situation visible.
- **Restate It:** Say the question in your own words.
- **Check One Step:** Fix the first unclear place.

Grade 7 test-day tip: When stuck, do not restart everything. Find the first step you trust, then rebuild from there.

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Persistence Coach

PRACTICE TODAY.
SUCCEED TOMORROW!

This book includes **5** full-length Math practice tests and **2** online tests to help Grade 7 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.

THIS BOOK INCLUDES:

- **5** Full-Length Printed Tests
- **2** Online Practice Tests
- Detailed Answers & Explanations

MORE PRACTICE. GREATER RESULTS.

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

WHAT YOU'LL GAIN

Build Confidence
Practice regularly to feel prepared and test-ready.

Strengthen Math Skills
Develop key math concepts and problem solving abilities.

Improve Understanding
Learn with clear explanations and step-by-step solutions.

Test Confidence
Familiarize with test formats and improve accuracy and speed.

Boost Performance
Apply your knowledge and achieve your best score!

TOPICS COVERED

- Ratios & Proportions
- The Number System
- Expressions & Equations
- Geometry
- Percents & Decimals
- Statistics & Probability
- Data Analysis
- Measurement & Conversions
- Algebraic Thinking
- And More!

2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

Don't lose it—your extra practice and success start here!

VISIT TESTINAR.COM/MATH7 FOR MORE PRACTICE TESTS

PRACTICE REGULARLY | STAY FOCUSED | SOLVE CONFIDENTLY | SUCCEED BRIGHTLY