

10

Wisconsin

Forward Exam

GRADE

7

MATH

PRACTICE TESTS

Standards Aligned Problem
Solving For Comprehensive
Assessment Programs



10 PRINTED TESTS

Realistic practice to build
confidence and mastery



2 ONLINE TESTS

Extra practice for
continued success



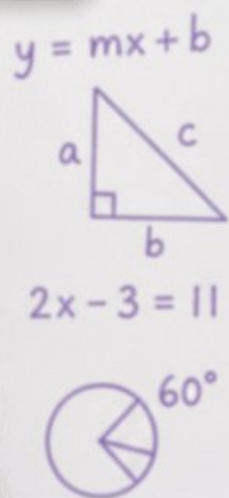
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step
solutions



FOCUSED & EFFECTIVE

Target key math skills
with purposeful practice



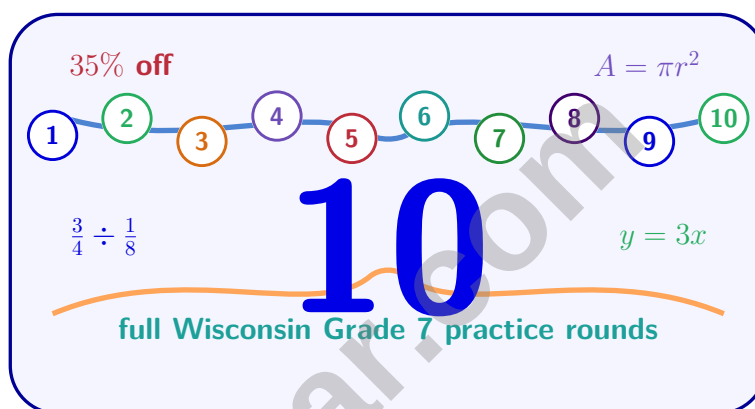
10 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE ★ REVIEW ★ SUCCEED

10 Wisconsin Forward Exam Grade 7 Math Practice Tests

Wisconsin Grade 7 Forward Exam Practice for lake-country readiness in rates, percent reasoning, expressions, surface area, statistics, and chance



Ten 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!

Ten focused rounds for sharper Wisconsin Forward Exam math thinking

This book gives you ten 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.

Read

Model

Verify

How to Use This Book

A ten-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?

Ten Wisconsin Forward Exam tests, 400 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–9	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Test 10	A final Wisconsin round to show growth across the whole book.
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.



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- 1) A scientist records two temperature readings: -8°C and 12°C . What is the difference between these temperatures (how many degrees apart)?

☐ A. 4°C ☐ C. 20°C
☐ B. -20°C ☐ D. -4°C

- 2) A baker makes cookies. She sells mini-cookies for \$0.50 each and bundles of 12 for \$5. Which expression shows the cost of 3 bundles and 8 individual cookies?

☐ A. $3 + 8(5 + 0.50) = \$46.50$ ☐ C. $5(3) + 0.50 + 8 = \$23.50$
☐ B. $(3 + 8)(5) = \$55$ ☐ D. $3(5) + 8(0.50) = \$19$

- 3) If a circle has a diameter of 26 meters, what is the length of its radius?

- 4) A spinner with 4 equal sections (Red, Blue, Green, Yellow) is spun twice to simulate a compound event. If “success” is defined as “the first spin is Red and the second spin is Blue,” how many outcomes in the sample space represent a success?

☐ A. 1 ☐ C. 4
☐ B. 2 ☐ D. 8

- 5) A city government wants to estimate the median rent paid by tenants in the city. To get a representative sample, it should:

☐ A. Interview landlords only ☐ C. Survey tenants at one large apartment complex
☐ B. Randomly select addresses from all rental properties ☐ D. Ask real estate agents for a list of typical rents



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- 6) A box plot shows the distribution of test scores for two classes: Class A: median 78, IQR 12 Class B: median 82, IQR 8 Which statement is true?

☐ A. Class A has a higher median ☐ C. Class A performed better overall
☐ B. Class B has less variability ☐ D. Class B has more outliers

- 7) A bicycle wheel has diameter 0.6 meters. If the bike travels 30 meters, how many complete rotations did the wheel make? Use $\pi \approx 3.14$, round to the nearest whole number.

- 8) A spinner with 5 equal sections is spun twice. How many total outcomes are possible?

☐ A. 5 ☐ C. 20
☐ B. 10 ☐ D. 25

- 9) A trapezoidal prism has a trapezoidal base with parallel sides 5 inches and 11 inches and a trapezoid height of 6 inches. The prism has a depth of 8 inches. What is the volume in cubic inches?



10) A histogram displays the age distribution of members at two gyms. Gym Alpha: ages 20–35 have the most members. Gym Beta: ages evenly distributed across 18–65. Which gym best serves a targeted demographic?

- ☐ A. Gym Alpha (serves a specific younger demographic)
- ☐ B. Gym Beta (more diverse membership)
- ☐ C. Both gyms serve identical demographics
- ☐ D. Gym Beta (younger members on average)

11) A tree diagram shows all outcomes for spinning a spinner with three colors and flipping a coin. How many total outcomes are displayed?

- ☐ A. 5
- ☐ B. 6
- ☐ C. 8
- ☐ D. 9

12) A survey asked 180 customers which payment method they prefer:

Method	Credit Card	Debit Card	Cash
Count	85	62	33

What is the experimental probability that a randomly selected customer prefers cash?

- ☐ A. $\frac{33}{180}$
- ☐ B. $\frac{33}{62}$
- ☐ C. $\frac{85}{180}$
- ☐ D. $\frac{62}{85}$

13) The stem-and-leaf plot shows:

Stem	Leaves
2	3, 5, 9
3	1, 4, 4, 7
4	2, 6

How many data values fall between 30 and 40 (inclusive)?

- ☐ A. 2
- ☐ B. 3
- ☐ C. 4
- ☐ D. 5



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- 1) A student's test score improved from 72 to 90. What is the percent increase in the score?

☐ A. 18%☐ B. 20%☐ C. 25%☐ D. 80%

- 2) A retailer buys items for \$80 and marks them up by 55%. What is the selling price?

- 3) The stem-and-leaf plot shows rainfall (mm) over two weeks:

Stem	Leaves
1	2, 5, 8
2	1, 4, 6
3	0, 2, 3, 5, 7
4	1, 8

How many days had rainfall of at least 30 mm?

☐ A. 5☐ B. 7☐ C. 8☐ D. 10

- 4) A savings account earns simple interest at 4.5% per year. If you deposit \$600 today, how much interest will you earn after 3 years?



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5) A rectangular prism has dimensions 2.5 m, 4 m, and 8 m. What is its volume?

☐ A. 14.5 m^3

☐ B. 80 m^3

☐ C. 100 m^3

☐ D. 20 m^3

6) Expand: $-5(4 - n)$

☐ A. $-20 + 5n$

☐ B. $-20 - 5n$

☐ C. $20 + 5n$

☐ D. $5n - 4$

7) Which pair of terms are like terms?

☐ A. $2x$ and $2y$

☐ B. $-5ab$ and $3ab$

☐ C. $4x^2$ and $4x$

☐ D. $6m^3$ and $6m^2$

8) What is the GCF of $6xy$ and $9y$?

☐ A. $3y$

☐ B. $6y$

☐ C. $9y$

☐ D. $3xy$

9) A rectangular prism has surface area 250 cm^2 . If length = 10 cm and width = 5 cm, what is the height?

☐ A. 5 cm

☐ B. 10 cm

☐ C. 7.5 cm

☐ D. 12.5 cm

10) If a sector measures 198° , what percent of the circle does it represent?

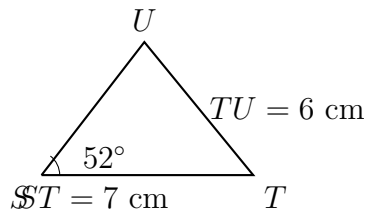
☐ A. 45%

☐ B. 50%

☐ C. 55%

☐ D. 60%





1)

Triangle STU has side $ST = 7 \text{ cm}$, side $TU = 6 \text{ cm}$, and the angle at T is 52° . This triangle is uniquely determined by the:

- ☐ A. SSS condition ☐ C. ASA condition
☐ B. SAS condition ☐ D. SSA condition

2) A percent can be converted to an angle in a circle graph. What angle corresponds to 25% of a circle?

- ☐ A. 45° ☐ C. 90°
☐ B. 60° ☐ D. 120°

3) A virus has a diameter of 0.0000001 cm . Express this in scientific notation.

- ☐ A. 1×10^{-6} ☐ C. 10×10^{-8}
☐ B. 1×10^{-7} ☐ D. 0.1×10^{-6}

4) Which expression is equivalent to $(5p + 3) + (2p - 9)$?

- ☐ A. $7p - 6$ ☐ C. $7p - 12$
☐ B. $3p - 6$ ☐ D. $7p + 6$

5) Simplify: $(x^3)^7$

- ☐ A. x^{10} ☐ C. x^{49}
☐ B. x^{21} ☐ D. x^{343}



6) Which situation matches the equation $2x + 7 = 21$?

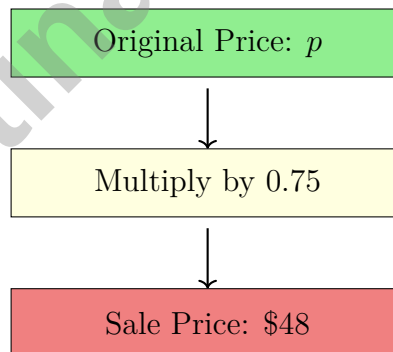
- ☐ A. Two items costing \$2 each and a \$7 item total \$21.
- ☐ B. Seven items costing \$2 each and a \$7 tax total \$21.
- ☐ C. x is increased by 2, then by 7, to get 21.
- ☐ D. A number is doubled, then 7 is added, resulting in 21.

7) An employee earns \$12 per hour plus a \$25 bonus. If they earn \$121, how many hours did they work?

- ☐ A. 6 hours
- ☐ B. 8 hours
- ☐ C. 10 hours
- ☐ D. 12 hours

8) A shop charges \$5 per pizza and then adds a delivery fee. If 4 pizzas plus delivery cost \$28 total, what is the delivery fee?

- ☐ A. \$3
- ☐ B. \$5
- ☐ C. \$8
- ☐ D. \$12



9)

What was the original price?

- ☐ A. \$36
- ☐ B. \$48
- ☐ C. \$60
- ☐ D. \$64



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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.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (7.NS.1-7.NS.3) The temperature difference is $12 - (-8) = 12 + 8 = 20^\circ\text{C}$ (or $|-8 - 12| = 20$).
- 2) **Choice D is correct.** (7.EE.4a) Three bundles at \$5 each: $3(5) = \$15$. Eight cookies at \$0.50 each: $8(0.50) = \$4$. Total: $15 + 4 = \$19$.
- 3) **The correct answer is 13.** (7.G.4-7.G.6) Use $r = \frac{d}{2}$: $r = \frac{26}{2} = 13$ meters.
- 4) **Choice A is correct.** (7.SP.5-7.SP.8) The sample space has $4 \times 4 = 16$ equally likely outcomes. Only one outcome satisfies the condition: "first spin Red, second spin Blue."
- 5) **Choice B is correct.** (7.SP.1-7.SP.4) A random sample of all rental addresses (not just one complex) ensures all neighborhoods and rent levels are represented, avoiding bias.
- 6) **Choice B is correct.** (7.SP.1-7.SP.4) IQR (Interquartile Range) measures spread. Class B's IQR of 8 is smaller than Class A's IQR of 12, indicating less variability in the middle 50% of scores.
- 7) **The correct answer is 16.** (7.G.4-7.G.6) Circumference $= \pi d = 3.14 \times 0.6 = 1.884$ m. Rotations $= 30 \div 1.884 \approx 16$.
- 8) **Choice D is correct.** (7.SP.5-7.SP.8) First spin: 5 outcomes; second spin: 5 outcomes. Total: $5 \times 5 = 25$ outcomes.
- 9) **The correct answer is 384.** (7.G.4-7.G.6) Base area $= \frac{1}{2}(5 + 11) \times 6 = \frac{1}{2} \times 16 \times 6 = 48$ in². Volume $= 48 \times 8 = 384$ in³.
- 10) **Choice A is correct.** (7.SP.3) Gym Alpha's concentration at 20–35 shows it serves a targeted young adult demographic well. Gym Beta's even distribution shows it serves all age groups without targeting a specific age.
- 11) **Choice B is correct.** (7.SP.5-7.SP.8) Spinner: 3 colors; Coin: 2 outcomes. Total: $3 \times 2 = 6$ branches at the end of the tree.
- 12) **Choice A is correct.** (7.SP.6) The relative frequency of cash preference is $\frac{\text{cash count}}{\text{total surveyed}} = \frac{33}{180} \approx 0.183$.
- 13) **Choice C is correct.** (7.SP.1-7.SP.4) Values in the range: 31, 34, 34, 37 (all from stem 3) = 4 values.
- 14) **Choice D is correct.** (7.RP.3) Percent error $= \frac{|180 - 200|}{200} \times 100\% = \frac{20}{200} \times 100\% = 10\%$.
- 15) **Choice C is correct.** (7.EE.1-7.EE.2) Distribute 3 to both terms: $3(x) + 3(5) = 3x + 15$.
- 16) **Choice D is correct.** (7.RP.3) $I = 10000 \times 0.072 \times 2.5 = \1800 .
- 17) **Choice C is correct.** (7.RP.1-7.RP.3) Divide actual length by scale: $26 \text{ m} \div 87 \approx 0.299 \text{ m} \approx 30 \text{ cm}$. The closest option is 3 cm (or 0.03 m, noting that 30 cm would overestimate).
- 18) **Choice C is correct.** (7.RP.3) $\frac{78}{120} = \frac{13}{20} = 0.65 = 65\%$.
- 19) **Choice D is correct.** (7.RP.3) Discount amount $= 0.25 \times 32 = \$8$. Sale price $= 32 - 8 = \$24$.
- 20) **The correct answer is A,D.** (7.G.4-7.G.6) Choice A gives the correct formula. Choice D is verified: $3.14 \times 5^2 = 78.5$ cm². B confuses formula with circumference. C forgets that area scales with the square of the radius. E mistakes semicircle (half) for one-third.
- 21) **Choice D is correct.** (7.NS.1b) New altitude $= 35000 + (-2000) = 33000$ feet. The plane's altitude decreased by 2000 feet.
- 22) **Choice B is correct.** (7.EE.1) Group like terms: $(7 + 2)m^2 + (3 - 1)n + 4 = 9m^2 + 2n + 4$. The constant 4 has no like terms.
- 23) **Choice A is correct.** (7.EE.1-7.EE.2) GCF of $18ab$ and $27a$ is $9a$. Factor: $18ab + 27a = 9a(2b + 3)$.
- 24) **Choice B is correct.** (7.SP.1-7.SP.4) $54^\circ \div 360^\circ \times 100 = 15\%$.
- 25) **Choice A is correct.** (7.EE.1-7.EE.2) Base cost is \$20, plus \$0.15 for each of t messages: $20 + 0.15t$.
- 26) **Choice B is correct.** (7.EE.4b) "At least \$144" means $\geq$. Set up: $12h \geq 144$. Divide by 12: $h \geq 12$.
- 27) **Choice D is correct.** (7.RP.1-7.RP.3) The unit-rate point (1, 0.8) directly shows the hourly wage: \$0.80 per hour.
- 28) **Choice D is correct.** (7.RP.3) $20\% \times \$500 = 0.20 \times 500 = \100 is correct. Options A, C, and D represent common errors (wrong percent, tax confusion, and flipping categories).
- 29) **Choice B is correct.** (7.NS.1-7.NS.3) When denominators are the same, add the numerators: $-\frac{3}{5} + \frac{4}{5} = \frac{1}{5}$.
- 30) **Choice B is correct.** (7.NS.1-7.NS.3) $(-20) \div y = -4$ means $y = (-20) \div (-4) = 5$.
- 31) **Choice A is correct.** (7.NS.2d) Divide $7 \div 12 = 0.58333\ldots = 0.5\overline{83}$. Since $12 = 2^2 \times 3$, the 3 causes repetition.



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Hi, Math Hero!

◇ This full-length book gave you ten complete Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. You showed up for Grade 7 practice again and again. That is what real growth looks like: steady effort, honest review, and a willingness to try. ◇

★ **Remember this:** A math hero is not someone who never misses a question. A math hero learns from the miss and comes back stronger. ★

Hero Habits

- **Courage:** You try problems that are not automatic.
- **Honesty:** You review what needs work.
- **Patience:** You let skills grow over time.
- **Pride:** You recognize the effort you gave.

Grade 7 test-day tip: Save one solved problem you are proud of. Looking back at progress helps motivation stay strong.

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

Jay Daie

Your Math Hero Guide

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 10 full-length Math practice tests and 2 extra 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:

10 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer 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



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

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- ✓ The Number System
- ✓ Expressions & Equations
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- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 EXTRA ONLINE TESTS

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



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