

3

Wisconsin

Forward Exam

GRADE

7

MATH

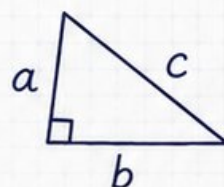
PRACTICE TESTS

- ✓ Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3}x - \frac{4}{5} = \frac{1}{2}$$



$$3(x - 2) = 2x + 5$$



3 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



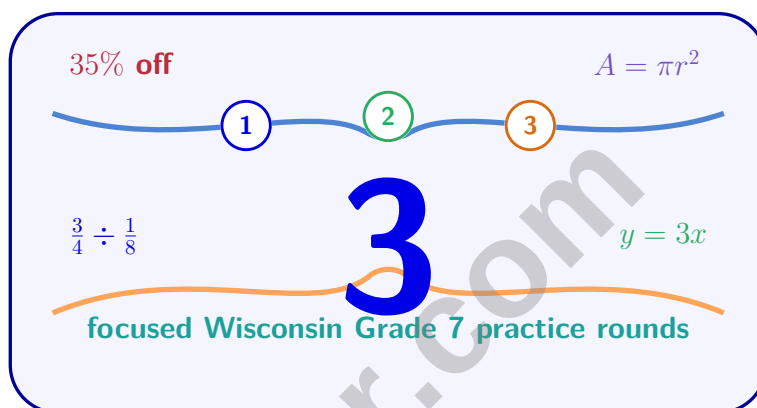
Detailed Answers
& Explanations



Improve Test
Performance

3 Wisconsin Forward Exam Grade 7 Math Practice Tests

Standards-Aligned Forward Exam Practice with Complete Answer Keys



Three 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!

Three focused rounds for sharper Forward Exam math thinking

This book gives you three 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 three-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?

Three Forward Exam tests, 120 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.
Test 3	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.



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& answers

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1) A retailer paid \$45 for a pair of shorts. If she marks up the price by 80%, what is the retail price?

- ☐ A. \$65
☐ B. \$225

- ☐ C. \$36
☐ D. \$81

2) A runner estimated she would cover 5.5 miles but actually covered 6 miles. What is the percent error?

- ☐ A. 5%
☐ B. 91.7%

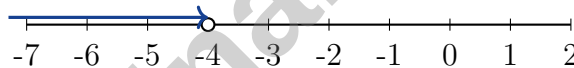
- ☐ C. 9.1%
☐ D. 8.3%

3) Which of the following is the expanded form of $-4(2y - 3)$?

- ☐ A. $-8y - 12$
☐ B. $-8y + 12$

- ☐ C. $8y + 12$
☐ D. $8y - 3$

4) Choose the correct number line for the inequality $n < -4$.



- ☐ A. Open circle at -4 pointing left
☐ B. Open circle at -4 pointing right

- ☐ C. Closed circle at -4 pointing left
☐ D. Closed circle at -4 pointing right

5) A toy car is $\frac{1}{10}$ the size of a real car. If the toy is 8 inches long, how long is the real car?

- ☐ A. 0.8 feet
☐ B. 4 feet

- ☐ C. 6.67 feet
☐ D. 80 inches



6) If 12 is 15% of a number, what is the number?

☐ A. 60

☐ C. 80

☐ B. 72

☐ D. 100

7) At noon, the temperature is 3°C . By midnight, the temperature falls to -12°C . How many degrees did the temperature drop?

8) What is the relationship between simple interest and each of the three variables in $I = Prt$?

☐ A. Interest increases proportionally with P and inversely with r and t

☐ C. Interest is constant regardless of P, r, or t

☐ B. Interest depends only on t; the other variables have no effect

☐ D. Interest increases proportionally with P, r, and t

9) Find the sum: $-3 + (-2) + 8$.

☐ A. -13

☐ C. 3

☐ B. -3

☐ D. 13

10) A rectangular prism has length 7 cm, width 2 cm, and height 4 cm. What is the total surface area?

☐ A. 56 cm^2

☐ C. 100 cm^2

☐ B. 72 cm^2

☐ D. 112 cm^2



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- 11) A simulation consists of rolling a die and flipping a coin, recording both results. This is the compound event. How many equally likely outcomes are in the sample space?

☐ A. 6
☐ B. 8
☐ C. 12
☐ D. 36

- 12) A cyclist travels $\frac{5}{6}$ mile in $\frac{1}{4}$ hour. Find the cyclist's speed in miles per hour.

- 13) Simplify: $7a + 4b - 2a + 3b - b$

☐ A. $5a + 6b$
☐ B. $5a + 5b$
☐ C. $9a + 6b$
☐ D. $5a + 7b$

- 14) What is the GCF of $12xy$, $18y$, and 6?

☐ A. 6
☐ B. $6y$
☐ C. 12
☐ D. $18y$

- 15) Which inequality represents “the sum of a number and 2 is not equal to 7”?

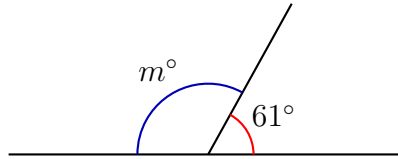
☐ A. $n + 2 \neq 7$
☐ B. $n + 2 = 7$
☐ C. $n \neq 5$
☐ D. $n + 7 \neq 2$



- 1) A rectangular garden is 10 m wide and 8 m tall. A triangular section is removed from the bottom, with the triangle's base being 10 m and height 2 m. What is the remaining area?

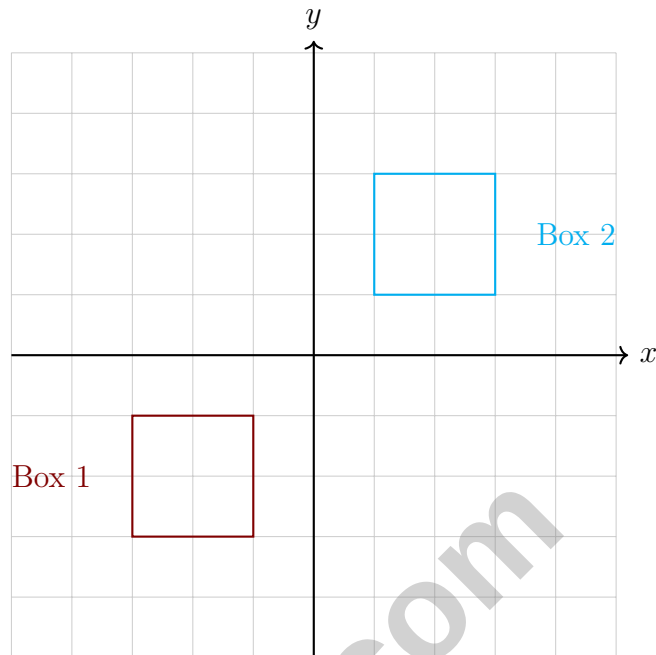
☐ A. 70 m^2 ☐ C. 90 m^2 ☐ B. 80 m^2 ☐ D. 100 m^2

2)



A ray extends upward from a point on a horizontal line, forming a linear pair with angles 61° and m . Find m .

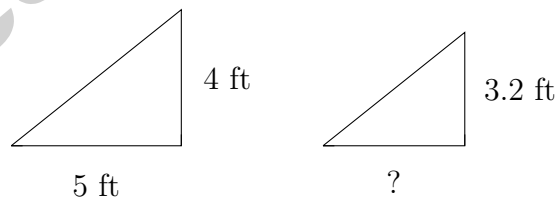
☐ A. 61° ☐ C. 119° ☐ B. 90° ☐ D. 241° 



3)

Box 1 is transformed to Box 2. A student claims this is a reflection over the line $y = x$. Is the student correct? Why or why not?

- ☐ A. Yes; the coordinates are swapped ☐ C. Yes; dimensions are preserved
☐ B. No; this is a 180° rotation plus translation ☐ D. No; reflection over $y = x$ would map $(-3, -3)$ to $(-3, -3)$, not $(1, 1)$



4)

Two similar right triangles are shown. The left triangle has legs 5 ft (horizontal) and 4 ft (vertical). The right triangle has a vertical leg of 3.2 ft. Find the horizontal leg of the right triangle.

- ☐ A. 2.56 ft ☐ C. 4 ft
☐ B. 3.2 ft ☐ D. 5 ft



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- 1) A student incorrectly says a graph shows a proportional relationship. The student made an error. What was it?

The graph shows a line from (0, 2) to (4, 10).

- ☐ A. The line is too steep
- ☐ B. The points are not whole numbers
- ☐ C. The line has negative slope
- ☐ D. The line does not pass through the origin
- 2) A teacher randomly selects one student from a class of 28 students to present. Which probability best matches this uniform model?
- ☐ A. Each student has probability $\frac{1}{28}$ of being selected.
- ☐ B. Each student has probability $\frac{1}{27}$ of being selected.
- ☐ C. Each student has probability 0.5 of being selected.
- ☐ D. The probability depends on student grades.
- 3) A waiter receives a \$12 tip on a \$60 bill. What percentage tip did the customer leave?
- ☐ A. 15%
- ☐ B. 18%
- ☐ C. 20%
- ☐ D. 25%
- 4) Your checking account statement shows a current balance of \$1 240. You have written checks totaling \$340 that have not yet cleared. What is your actual available balance?
- ☐ A. \$800
- ☐ B. \$1 240
- ☐ C. \$1 000
- ☐ D. \$900



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- 5) Tanya deposits \$800 in an account at 9% annual compound interest. What is the balance after 2 years?
- ☐ A. \$944.72 ☐ C. \$952
☐ B. \$972 ☐ D. \$950.48
- 6) Two shops have different pricing on the same jacket. Shop A: originally \$80, marked down 15%. Shop B: originally \$75, marked down 10%. Which shop has the lower final price?
- ☐ A. Shop A; \$68 ☐ C. They cost the same.
☐ B. Shop A; \$65 ☐ D. Shop B; \$67.50
- 7) Miguel owed his friend \$18 (debt = -18). His friend forgave \$10 of the debt. How much does Miguel still owe? (Model his remaining debt.)
- ☐ A. $-\$28$ ☐ C. \$8
☐ B. \$28 ☐ D. $-\$8$



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 D is correct.** (7.RP.3) Markup = $0.80 \times 45 = \$36$. Retail price = $45 + 36 = \$81$.
- 2) **Choice D is correct.** (7.RP.3) Percent error = $\frac{|5.5-6|}{6} \times 100\% = \frac{0.5}{6} \times 100\% \approx 8.3\%$.
- 3) **Choice B is correct.** (7.EE.1-7.EE.2) Distribute -4 : $-4(2y) - 4(-3) = -8y + 12$. Negative times negative is positive.
- 4) **Choice A is correct.** (7.EE.4b) $n < -4$ uses an open circle (strict inequality) and points left toward smaller numbers.
- 5) **Choice D is correct.** (7.RP.1-7.RP.3) If the toy is $\frac{1}{10}$ the size, the real car is 10 times larger: $8 \times 10 = 80$ inches.
- 6) **Choice C is correct.** (7.RP.3) If $12 = 0.15 \times n$, then $n = \frac{12}{0.15} = 80$.
- 7) **The correct answer is 15.** (7.NS.1-7.NS.3) The temperature drop is $3 - (-12) = 3 + 12 = 15$ degrees.
- 8) **Choice D is correct.** (7.RP.3) In $I = Prt$, interest is directly proportional to principal, rate, and time. If any of these increases, interest increases by the same factor.
- 9) **Choice C is correct.** (7.NS.1b) Combine: $-3 + (-2) = -5$, then $-5 + 8 = 3$. The positive number outweighs the combined negatives.
- 10) **Choice C is correct.** (7.G.4-7.G.6) $SA = 2(lw + lh + wh) = 2(7 \cdot 2 + 7 \cdot 4 + 2 \cdot 4) = 2(14 + 28 + 8) = 2(50) = 100 \text{ cm}^2$.
- 11) **Choice C is correct.** (7.SP.5-7.SP.8) Die outcomes: 6 (rolling 1, 2, 3, 4, 5, 6). Coin outcomes: 2 (heads or tails). Total compound outcomes: $6 \times 2 = 12$ distinct pairs (e.g., H1, H2, H3, ..., H6, T1, T2, ..., T6).
- 12) **The correct answer is 10/3 mph.** (7.RP.1-7.RP.3) Unit rate = $\frac{5/6}{1/4} = \frac{5}{6} \times 4 = \frac{20}{6} = \frac{10}{3} = 3\frac{1}{3} \text{ mph}$.
- 13) **Choice A is correct.** (7.EE.1) Combine: $(7 - 2)a + (4 + 3 - 1)b = 5a + 6b$.
- 14) **Choice A is correct.** (7.EE.1-7.EE.2) GCF of 12, 18, 6 is 6. Not all terms share a common variable factor.
- 15) **Choice A is correct.** (7.EE.4b) "The sum of a number and 2" is $n + 2$; "is not equal to 7" is $\neq 7$.
- 16) **Choice D is correct.** (7.RP.1-7.RP.3) The unit-rate marker at $(1, 0.7)$ shows $k = 0.7$. So the equation is $y = 0.7x$.
- 17) **Choice A is correct.** (7.NS.2d) Divide $1 \div 16 = 0.0625$. Since $16 = 2^4$, this is a terminating decimal.
- 18) **Choice A is correct.** (7.NS.1-7.NS.3) $-1.75 \times 4 = -7.00$ dollars.
- 19) **Choice C is correct.** (7.EE.1-7.EE.2) Difference of 10 and w means 10 minus w : $10 - w$.
- 20) **Choice A is correct.** (7.EE.4a) To find when costs are equal, set the two cost expressions equal: base and monthly charges for each plan. Solving $3m + 15 = 4m + 8$ gives $m = 7$ months.
- 21) **Choice B is correct.** (7.EE.3-7.EE.4) Subtract 3: $7x = 28$. Divide by 7: $x = 4$.
- 22) **The correct answer is B,D.** (7.SP.1-7.SP.4) Total is $280 + 420 + 100 = 800$. Online: $280/800 = 0.35 = 35\%$, so B is correct. In-store: $420/800 = 0.525 = 52.5\%$, so D is correct. A is wrong (not exactly 50%). C is wrong ($100/800 = 12.5\%$, not 10%).
- 23) **Choice D is correct.** (7.G.1-7.G.5) Scale factor is 5 (linear). Area scale factor is $5^2 = 25$. Drawing area: $4 \times 5 = 20 \text{ cm}^2$. Actual area: $20 \times 25 = 500 \text{ cm}^2$. (The student's error was multiplying by 5 instead of 25.)
- 24) **Choice B is correct.** (7.G.1-7.G.5) A plane parallel to a trapezoidal prism's bases produces a cross-section congruent to those bases. The cross-section is a trapezoid with the same dimensions as the original trapezoidal bases.
- 25) **Choice B is correct.** (7.G.4-7.G.6) A: $V = \pi r^2 h = 3.14 \times (1)^2 \times 12 = 3.14 \times 1 \times 12 = 37.68 \text{ units}^3$. B: $V = 3.14 \times (3)^2 \times 1.5 = 3.14 \times 9 \times 1.5 = 42.39 \text{ units}^3$. Cylinder B is greater.
- 26) **Choice C is correct.** (7.SP.1-7.SP.4) Random selection from a complete population list ensures every member has equal chance of selection, minimizing bias.
- 27) **Choice D is correct.** (7.RP.1-7.RP.3) The ratio salt:water is $3 : 12 = 1 : 4$, so $s = \frac{1}{4}w$.
- 28) **Choice C is correct.** (7.RP.3) Increase: $\frac{15}{100} \times 5000 = 750$. New revenue: $5000 + 750 = \$5750$.
- 29) **Choice D is correct.** (7.RP.3) Simple interest = $P \times r \times t = \$1,000 \times 0.05 \times 1 = \50 .
- 30) **Choice B is correct.** (7.NS.1-7.NS.3) Find a common denominator: $-\frac{3}{4} + \frac{2}{4} = -\frac{1}{4}$.
- 31) **The correct answer is 60.** (7.RP.1-7.RP.3) The unit rate is $300 \div 5 = 60$ miles per hour.



Hi, Smart Reviewer!

◇ The best learning often happens after the test, when you look back and notice what worked and what needs attention. This short, concentrated book gave you three focused Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. ◇

★ **Remember this:** You can use these practice tests as a map. The questions you solved quickly show strengths; the questions you missed show where to train next. ★

Review Routine

- **Sort:** Group mistakes by skill.
- **Reread:** Check whether the question was misunderstood.
- **Resolve:** Do the problem again without looking.
- **Record:** Write the lesson in one sentence.

Grade 7 test-day tip: Review in short focused sessions. Ten careful minutes can be more useful than an hour of rushing.

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

Jay Daie

Your Review Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **3** 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:

3 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.



Detailed Answers & Explanations

Learn from clear explanations and step-by-step solutions.



Improve Test 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!

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