7 Wisconsin Forward Exam

7 PRINTED TESTS + 2 ONLINE TESTS

Grade 6 MATH PRACTICE TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program

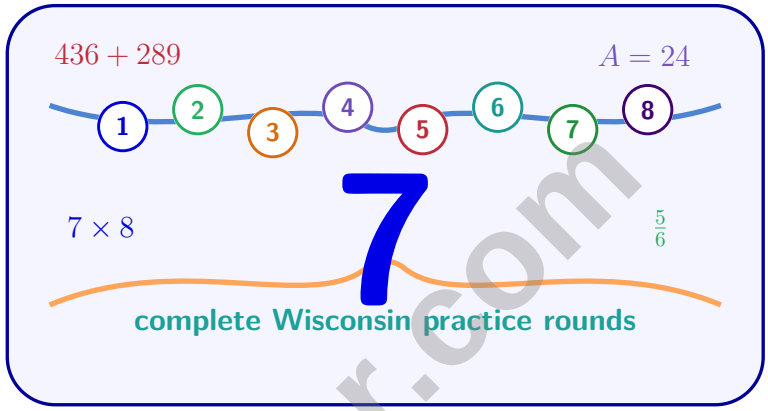
- 7 Full-Length Printed Tests
- Standards-Aligned Math Practice
- Detailed Answer Keys and Explanations
- Build Confidence. Achieve Success.

You've Got This!

PREPARE PRACTICE SUCCEED | PRACTICE WITH PURPOSE | STRENGTHEN MATH SKILLS | REVIEW, IMPROVE, AND SUCCEED

7 Wisconsin Forward Exam Grade 6 Math Practice Tests

Standards-Aligned Forward-Moving Review for Wisconsin Forward Exam



Seven complete 40-question Grade 6 practice rounds for Forward Exam, built for forward-moving review with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari

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Welcome, Wisconsin Math Explorer!

Eight focused rounds using forward-moving review

This book gives you seven full Grade 6 practice tests for Forward Exam. Each round uses lake roads, farm fields, and practical problem checks as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Wisconsin Practice Promise

Move forward with care: underline the task, solve neatly, and confirm the units.

How to Use This Book

A seven-session routine for forward-moving review

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Wisconsin review rhythm: Finish a round, review the missed steps, and use the next test to move forward.

What Is Inside?

Eight Forward Exam tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 7	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Forward-moving review means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

Table of Contents

1) What is the reflection of the point $(2, 6)$ across the x-axis?

☐ A. $(-2, 6)$
☐ B. $(2, -6)$
☐ C. $(-2, -6)$
☐ D. $(6, 2)$

2) A student mistakenly uses the formula $A = \pi d^2$ instead of $A = \pi r^2$ for a circle with radius 3 inches and $\pi \approx 3.14$. What incorrect area would they calculate?

☐ A. 113.04 in^2
☐ B. 28.26 in^2
☐ C. 56.52 in^2
☐ D. 9.42 in^2

3) What is the median of the data set: $3, 7, 9, 12, 15$?

☐ A. 9
☐ B. 7
☐ C. 12
☐ D. 10.2

4) The probability that a train arrives on time is 65%. What is the probability that the train is late, expressed as a decimal?

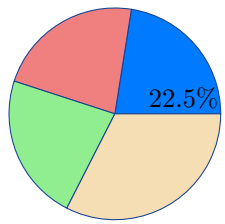
☐ A. 0.25
☐ B. 0.35
☐ C. 0.50
☐ D. 0.65

5) If $3(x + 5) = 24 + 15$, what is the value of x?

6) A scientist records bird counts at different altitudes. The stem-and-leaf plot uses a 2-digit stem (like 15, 16, 17). If stem 16 has leaves 0, 3, 7, what are the data values?

☐ A. 160, 163, 167
☐ B. 16, 16, 16
☐ C. 1603, 1663, 1673
☐ D. Cannot determine without the full plot

7)



A company surveys 800 employees about work location. The circle graph shows 22.5% work from home. How many employees work from home?

☐ A. 180
☐ B. 160
☐ C. 200
☐ D. 220

8) Write 0.005 as a percent.

☐ A. 0.5%
☐ B. 5%
☐ C. 50%
☐ D. 500%

9) The data set is 10, 12, 14, 16, 18. If you add an outlier of 100, how does the mean change?

☐ A. Mean stays about the same
☐ B. Mean becomes zero
☐ C. Mean decreases significantly
☐ D. Mean increases significantly

10) For the data set $3, 7, 4, 9, 2, 8, 5$, arrange in order: $2, 3, 4, 5, 7, 8, 9$. The median is 5 and the upper quartile is 8. What is the lower quartile?

☐ A. 2
☐ B. 5
☐ C. 4
☐ D. 3

11) In a box plot, if the median is much closer to Q_1 than to Q_3, what does this suggest about the data?

☐ A. The data is symmetric.
☐ B. The data is skewed right (positively skewed).
☐ C. The data has no outliers.
☐ D. The data has equal numbers of values above and below the median.

12) A dot plot shows the number of books read by 10 students: $2, 3, 3, 4, 4, 4, 5, 5, 6, 6$. What is the median number of books?

☐ A. 4
☐ B. 6
☐ C. 5
☐ D. 4.5

13) A number line shows tick marks at halves from -2 to 2. What fraction is located halfway between -1 and 0? Write your answer as a fraction.

14) When would a circle graph be INAPPROPRIATE for displaying data?

☐ A. Showing what fraction of a pizza is pepperoni
☐ B. Comparing monthly expenses that sum to a budget
☐ C. Tracking daily temperature changes across a week
☐ D. Showing budget allocation to different departments

1) Marcus earns $250 per week. He wants to save 20% of his earnings. How much will he save in one week?

☐ A. $20
☐ B. $100
☐ C. $70
☐ D. $50

2) How many $\frac{1}{4}$-cup servings are in 2 cups?

☐ A. 6
☐ B. 8
☐ C. $\frac{1}{2}$
☐ D. 4

3) A garden has roses and daisies in a 4 : 7 ratio. If there are 16 roses, how many daisies are there?

Roses	Daisies
4	7
8	14
16	?

☐ A. 26
☐ B. 32
☐ C. 30
☐ D. 28

4) A bus travels at an average speed of 45 miles per hour for 3 hours. How far does it travel?

☐ A. 120 miles
☐ B. 135 miles
☐ C. 150 miles
☐ D. 165 miles

Long Division: $2{,}856 \div 12$

$28 \div 12 = 2$, remainder 4

Bring down 5: $45 \div 12 = 3$, remainder 9

Bring down 6: $96 \div 12 = 8$, remainder 0

Quotient: **238**

5) What is the quotient?

☐ A. 238
☐ B. 240
☐ C. 242
☐ D. 250

6) Which pair shows numbers with equal absolute values?

☐ A. -3 and -5
☐ B. 2 and -2
☐ C. 4 and -5
☐ D. -6 and -8

7) In a student club, the ratio of 6th graders to 7th graders is $4 : 6$. If there are 12 sixth graders, how many seventh graders are in the club?

8) A point is on the y-axis between Quadrants I and II. Which of the following could be its coordinates?

☐ A. $(0, -3)$
☐ B. $(0, 4)$
☐ C. $(4, 0)$
☐ D. $(-4, 0)$

1) Evaluate: $2 \times (3 + 4)^2 - 10$

☐ A. 48
☐ B. 88
☐ C. 78
☐ D. 68

2) A fitness trainer gives personal training sessions. The table shows the rate of clients trained:

Clients Trained	Time (weeks)
5	2
10	4
?	6

☐ A. 12
☐ B. 13
☐ C. 15
☐ D. 18

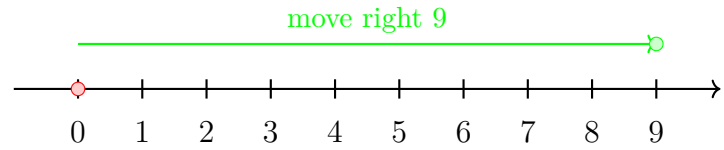
3) Four friends split a restaurant bill of $96. How much does each person owe?

☐ A. $20
☐ B. $24
☐ C. $30
☐ D. $32

4) What is 6,216 ÷ 38?

☐ A. 163
☐ B. 164
☐ C. 165
☐ D. 168

5) What is $0 - (-9)$?



☐ A. -9
☐ B. 0
☐ C. 9
☐ D. 18

6) In a garden, the ratio of roses to tulips is 5 : 8. If there are 40 roses, how many tulips are there?

☐ A. 45
☐ B. 50
☐ C. 64
☐ D. 72

7) A fruit vendor sells bananas at a constant price. This table shows the relationship:

Pounds of Bananas	Total Cost ($)
2	1.50
4	3.00
6	4.50

Which equation represents the relationship between pounds (p) and cost (c)?

☐ A. $c = 0.5p$
☐ B. $c = 0.75p$
☐ C. $c = 1.5p$
☐ D. $c = 3p$

8) A recipe uses 0.4 cups of flour. What percent of 1 cup is this?

☐ A. 4%
☐ B. 14%
☐ C. 40%
☐ D. 400%

Wisconsin Forward Exam Practice Test Answer Keys

How to use this Wisconsin Forward Exam answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to forward-moving review
3. rework the problem before reading the full explanation, using this reminder: Move forward with care: underline the task, solve neatly, and confirm the units.

A calm Wisconsin correction routine turns every missed item into useful practice. Finish a round, review the missed steps, and use the next test to move forward.

Wisconsin Practice Test Answers and Explanations

Review the seven printed Forward Exam tests with practical, steady, and ready to keep moving habits.

Practice Test 1 Answers and Explanations

1) **Choice B is correct.** M.6.NS.C.8, 6.NS.C.8 Reflection across the x-axis changes the sign of the y-coordinate while the x-coordinate remains the same. The point $(2, 6)$ becomes $(2, -6)$.
2) **Choice A is correct.** 6.RP.A.1 If they mistakenly used $A = \pi d^2$ with $d = 2r = 6$ in, they would get $A \approx 3.14 \times 6^2 = 3.14 \times 36 = 113.04$ in^2 (incorrect).
3) **Choice A is correct.** M.6.SP.B.5c The data is already ordered. The median is the middle value: 9.
4) **Choice B is correct.** M.6.SP.B.5b If $P(\text{on time}) = 65\% = 0.65$, then $P(\text{late}) = 1 - 0.65 = 0.35$ or 35%.
5) **The correct answer is 8.** M.6.NS.B.4 $3(x + 5) = 3x + 15 = 24 + 15 = 39$. Thus $3x = 24$, so $x = 8$. Alternatively, $3(x + 5) = 3(8 + 5) = 3(13) = 39 = 24 + 15$ ✓.
6) **Choice A is correct.** M.6.SP.B.4 With a 2-digit stem (16), each leaf appends to form the value. Stem 16 with leaves $0, 3, 7$ gives values $160, 163, 167$.
7) **Choice A is correct.** M.6.NS.B.2 22.5% of 800 is $0.225 \times 800 = 180$ employees.
8) **Choice A is correct.** 6.RP.A.3 $0.005 \times 100 = 0.5\%$.
9) **Choice D is correct.** M.6.SP.A.2, 6.SP.A.2 Original mean $= (10 + 12 + 14 + 16 + 18)/5 = 14$. With 100: $(10 + 12 + 14 + 16 + 18 + 100)/6 = 28.3$. The outlier pulls the mean up dramatically.
10) **Choice D is correct.** M.6.SP.B.5c, 6.SP.B.5c The lower half of the ordered data is $2, 3, 4$. The median of the lower half (lower quartile, Q1) is 3.
11) **Choice B is correct.** 6.RP.A.1 When the median is closer to Q_1, the upper half of the data (Q_3 to median to Q_1) spreads out more, indicating a right skew. This means there are higher values pulling the distribution rightward.
12) **Choice D is correct.** M.6.SP.B.5 With 10 data points, the median is the average of the 5th and 6th values when ordered: $(4 + 5) \div 2 = 4.5$.
13) **The correct answer is $-\frac{1}{2}$.** M.6.NS.C.6c, 6.NS.C.6c The midpoint is $\frac{-1+0}{2} = -\frac{1}{2}$.
14) **Choice C is correct.** M.6.SP.B.4 Circle graphs show parts of a whole. Temperature changes over time require a line graph. The other options show compositions (parts of 100%) which circle graphs handle well.
15) **Choice A is correct.** M.6.EE.A.1, 6.EE.A.1 Correct order: exponent $2^2 = 4$, then multiply $3 \times 4 = 12$, then add $2 + 12 = 14$. The student likely computed $(2 + 3) \times 2^2 = 5 \times 4 = 20$, adding before the exponent.
16) **The correct answer is −$3000.** M.6.NS.B.2 Loss of $500 per month for 6 months: $(-500) \times 6 = -3000$, meaning a loss of $3000.
17) **Choice B is correct.** M.6.EE.A.2a "The quotient of 14 and t" is $\frac{14}{t}$. "Decreased by 3" means subtract 3: $\frac{14}{t} - 3$.
18) **Choice B is correct.** M.6.EE.B.8 "Below 75" means strictly less than, not including 75. The inequality is $T < 75$.
19) **Choice B is correct.** M.6.G.A.1, 6.G.A.1 $A = \frac{1}{2} \times 13 \times 6 = 39$ m^2.
20) **Choice A is correct.** M.6.G.A.1 Area $= \frac{1}{2}(14 + 10) \times 7 = \frac{1}{2}(24)(7) = 84$ m^2.
21) **The correct answer is Equivalent-fraction divide and reciprocal multiply.** M.6.NS.A.1 B uses a common denominator so you are dividing same-size chunks: $\frac{15}{18} \div \frac{6}{18} = \frac{15}{6} = \frac{5}{2}$. C keeps $\frac{5}{6}$ and multiplies by the reciprocal of $\frac{1}{3}$, which is $\frac{3}{1}$—that is $\frac{5}{6} \times \frac{3}{1}$, also simplifying to $\frac{5}{2}$. A never flips $\frac{1}{3}$, D mixes random numbers together, and E flips $\frac{5}{6}$ instead of flipping the divisor.
22) **The correct answer is $10,500.** M.6.EE.A.3 Add all three months' profits: $8{,}000 + (-2{,}500) + 5{,}000 = 10{,}500$ dollars.
23) **Choice C is correct.** 6.RP.A.1 Use the ratio as a recipe: for every 1 cup of juice, there are 4 cups of water. With 8 cups of juice, multiply $8 \times 4 = 32$ cups of water.

Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 7 full practice tests. That takes time, hard work, and heart. ◇

⋆ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ⋆

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

MASTER TODAY.
SUCCEED TOMORROW.

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 7 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

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

7 PRINTED TESTS

+

2 ONLINE TESTS

PERFECT FOR:

- Classroom Practice
- Homework & Review
- Independent Learning
- Test Preparation
- Skill Reinforcement
- Building Confidence

PRACTICE TODAY. SUCCEED TOMORROW.

WHAT STUDENTS WILL 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 aligned with standards through meaningful practice.

Test Confidence
Become familiar with test formats and improve accuracy and speed.

Achieve Success
Build confidence and perform your best on test day.

TOPICS COVERED

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

2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

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

7 FULL-LENGTH PRINTED TESTS

STANDARDS-ALIGNED PRACTICE

DETAILED ANSWER KEYS & EXPLANATIONS