

# 9

# Wisconsin Forward Exam

GRADE

# 6

MATH

# PRACTICE TESTS

Standards-Aligned Review  
Mixed Practice & Answer Key



### 9 PRINTED TESTS

Realistic practice to build confidence and mastery



### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



### BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



**9 PRINTED TESTS**  
**+2 ONLINE TESTS**

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

**PRACTICE TODAY.**  
**SUCCEED TOMORROW.**



PRACTICE



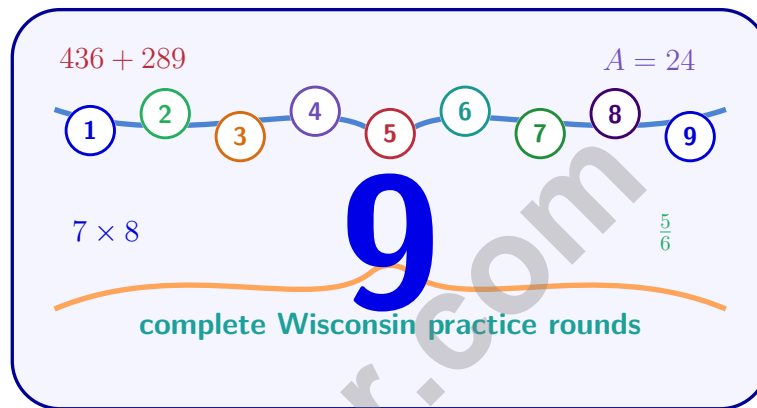
REVIEW



SUCCEED

# 9 Wisconsin Forward Exam Grade 6 Math Practice Tests

*Standards-Aligned Forward-Moving Review for Wisconsin Forward Exam*



Nine 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!

Nine focused rounds using forward-moving review

This book gives you nine 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.

Read

Plan

Check

## How to Use This Book

A nine-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?

Nine Forward Exam tests, 360 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.
Tests 7–9	Final stamina rounds 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.



Scan me!  
For more practice  
& answers

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4) Compute:  $\frac{8}{9} \div \frac{4}{5}$

A.  $\frac{32}{45}$   
 B.  $\frac{10}{9}$

C.  $\frac{36}{40}$   
 D.  $\frac{9}{8}$

5) Order these decimals from greatest to least: 0.38, 0.8, 0.308, 0.83

A. 0.83, 0.8, 0.38, 0.308

C. 0.308, 0.38, 0.8, 0.83

B. 0.8, 0.83, 0.308, 0.38

D. 0.308, 0.38, 0.83, 0.8

6) Which pair of numbers has a GCF of 5?

A. 15 and 25

C. 12 and 20

B. 10 and 20

D. 14 and 35

7) A student receives a monthly allowance of \$360. She allocates: 40% to savings, 35% to entertainment, 15% to gifts, and the remainder to snacks. How much does she spend on snacks?

A. \$18

C. \$54

B. \$36

D. \$126

8) What is the quotient of  $6,435 \div 33$ ?

A. 195

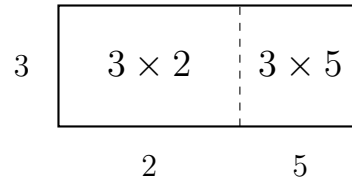
C. 199

B. 197

D. 205



- 9) The area model below shows a rectangle divided into two parts. Which expression does it represent?

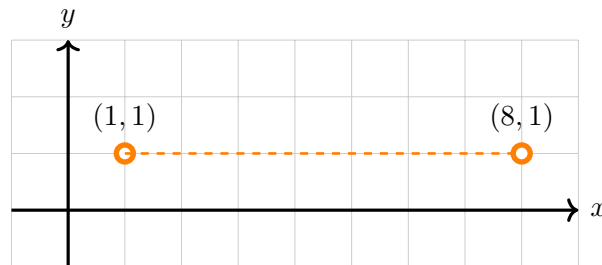


- A.  $3(2 + 5)$                        C.  $5(3 + 2)$   
 B.  $2(3 + 5)$                        D.  $(3 + 2)(3 + 5)$
- 10) Which fraction is equivalent to  $-0.75$ ?

- A.  $-\frac{1}{4}$                                        C.  $-\frac{2}{3}$   
 B.  $-\frac{1}{2}$                                        D.  $-\frac{3}{4}$



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& answers



1)

What is the distance between  $(1, 1)$  and  $(8, 1)$ ?

- A. 6 units                       C. 8 units  
 B. 7 units                       D. 9 units

2) Evaluate:  $3^2 \times 2 - 4$ 

- A. 14                               C. 32  
 B. 18                               D. 50

3) Simplify the ratio  $8 : 12$  to lowest terms.4) What is  $(-2) \times (-3) \times (-5)$ ?

- A.  $-30$                                C. 10  
 B. 30                                   D.  $-10$



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For more practice  
& answers

5) What is the GCF of 21 and 28?

A. 2

C. 7

B. 4

D. 14

6) The number line below shows tick marks at each integer. Point M is marked on the line. What is the coordinate of point M?



A. 2.5

C. 2

B. 2.25

D. 3

7) If the point  $(6, -4)$  is reflected across the  $x$ -axis and then across the  $y$ -axis, what are the final coordinates?

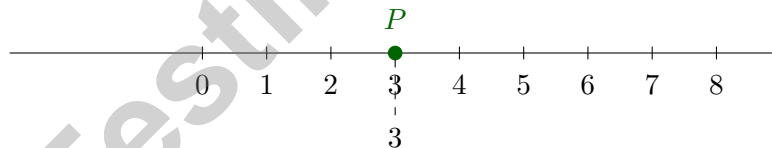
A.  $(6, -4)$

C.  $(6, 4)$

B.  $(-6, 4)$

D.  $(-6, -4)$

8)



Which number is less than  $P$ ?

A. 5

C. 2

B. 4

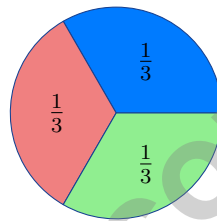
D. 6



1)

Expression	Result
$(-3) \times 5$	?
$(-3) \times (-5)$	?

Which row correctly matches the expressions to their results?

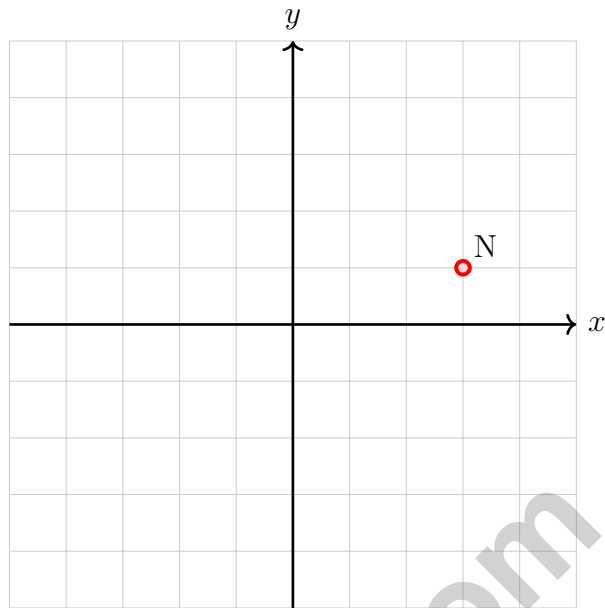
 A.  $-15$  and  $-15$  C.  $15$  and  $-15$  B.  $15$  and  $15$  D.  $-15$  and  $15$ 

2)

A school has 450 students. The circle graph shows grade distribution. If  $\frac{1}{3}$  are 6th graders, how many are 6th graders?

 A. 120 C. 100 B. 180 D. 150

Scan me!  
For more practice  
& answers



3)

Point  $N$  at  $(3, 1)$  is translated 2 units to the left and 3 units up. What are the coordinates of  $N'$ ?

- A.  $(1, 4)$                        C.  $(1, -2)$   
 B.  $(5, -2)$                        D.  $(5, 4)$

4) A library worker wants to know: “Which book genre do students like best?”

To answer this question properly, the worker should:

- A. Ask one student.                       C. Look at what the librarian prefers.  
 B. Survey many students and collect their responses.                       D. Count the total number of books.



**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 nine printed Forward Exam tests with practical, steady, and ready to keep moving habits.

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(M.6.SP.A.2)** This is a statistical question requiring data collection because different students have different favorite colors. The other questions have single, fixed answers found through knowledge, not data collection.
- 2) **Choice C is correct.** **(6.RP.A.3)** Multiply the drawing base by the scale: 4 inches  $\times$  2 feet/inch = 8 feet.
- 3) **The correct answer is 9 dollars per book.** **(6.RP.A.1)** Divide the total cost by the number of books:  $45 \div 5 = 9$  dollars per book.
- 4) **Choice B is correct.** **(M.6.NS.A.1)**  $\frac{8}{9} \times \frac{5}{4} = \frac{40}{36} = \frac{10}{9}$ .
- 5) **Choice A is correct.** **(M.6.NS.B.3, 6.NS.B.3)** Compare:  $0.83 = 0.830 > 0.800 > 0.380 > 0.308$ . Order from greatest to least: 0.83, 0.8, 0.38, 0.308.
- 6) **Choice A is correct.** **(M.6.NS.B.4, 6.NS.B.4)** Factors of 15: 1, 3, 5, 15. Factors of 25: 1, 5, 25. Common factors: 1, 5. GCF is 5. For option B, GCF is 10; for C, GCF is 4; for D, GCF is 7.
- 7) **Choice B is correct.** **(M.6.EE.C.9)** Remainder:  $100\% - 40\% - 35\% - 15\% = 10\%$  of  $\$360 = 0.10 \times 360 = \$36$ .
- 8) **Choice A is correct.** **(M.6.NS.B.2, 6.NS.B.2)**  $6,435 \div 33 = 195$ . Check:  $33 \times 195 = 6,435$ .
- 9) **Choice A is correct.** **(M.6.NS.B.4)** The rectangle has height 3 and is divided horizontally into two widths: 2 and 5. The total area is  $3 \times 2 + 3 \times 5 = 3(2 + 5)$ .
- 10) **Choice D is correct.** **(M.6.NS.C.6c, 6.NS.C.6c)** The decimal  $0.75 = \frac{75}{100} = \frac{3}{4}$ , so  $-0.75 = -\frac{3}{4}$ .
- 11) **Choice B is correct.** **(M.6.NS.C.8, 6.NS.C.8)** Points  $P$  at  $(3, 5)$  and  $Q$  at  $(-3, 5)$  both have  $y = 5$ . They share the same horizontal line but are in different quadrants (I and II).
- 12) **Choice A is correct.** **(6.RP.A.3)** When adding two negative numbers, add their absolute values:  $|-3| + |-2| = 3 + 2 = 5$ , then make the result negative:  $-3 + (-2) = -5$ .
- 13) **Choice C is correct.** **(M.6.EE.A.3)**  $6(2x - 3) = 12x - 18$ . Choice C gives  $12x - 3$ , which is incorrect; it distributes only the 6 to the  $2x$ , not the  $-3$ .
- 14) **Choice D is correct.** **(M.6.EE.B.6, 6.EE.B.6)** The bar model shows two parts:  $n$  and 8. The total is their sum:  $n + 8$ .
- 15) **Choice C is correct.** **(6.G.A.2)**  $V = 5 \times 5 \times 2 = 25 \times 2 = 50 \text{ cm}^3$ .
- 16) **Choice C is correct.** **(M.6.G.A.4)** A triangular prism has 2 triangular bases and 3 rectangular faces (the lateral faces connecting the edges of the two triangles). In its net, there are exactly 3 rectangles.
- 17) **Choice D is correct.** **(6.RP.A.1)** From  $A = \pi r^2$ , we get  $113.04 \approx 3.14 \times r^2$ , so  $r^2 \approx 36$ , thus  $r = 6$  cm. Diameter  $d = 2 \times 6 = 12$  cm.
- 18) **Choice D is correct.** **(M.6.SP.B.5c, 6.SP.B.5c)** Range = maximum - minimum =  $300 - 200 = 100$  mL.
- 19) **Choice D is correct.** **(6.RP.A.1)** IQR =  $Q_3 - Q_1 = 30 - 18 = 12$ .
- 20) **The correct answer is Both  $|-13| = 13$  and  $|13| = 13$  equal 13.** **(M.6.NS.C.7c)** A:  $|-13| = 13 \checkmark$ . C:  $|13| = 13 \checkmark$ . B: opposite of 13 is  $-13$ . D:  $-|13| = -(13) = -13$ . E:  $|-13| + |13| = 13 + 13 = 26$ . So only A and C equal 13.
- 21) **Choice D is correct.** **(M.6.NS.C.8, 6.NS.C.8)** Same  $x$ -coordinate  $(-2)$ :  $|2 - (-1)| = |2 + 1| = 3$  units.
- 22) **Choice D is correct.** **(M.6.NS.B.2)** The product of two negatives is positive:  $(-6) \times (-4) = 24$ .
- 23) **Choice A is correct.** **(M.6.EE.A.2a)** "The product of  $a$  and  $b$ " is  $ab$ . "The sum of  $ab$  and  $c$ " is  $ab + c$ .
- 24) **Choice D is correct.** **(M.6.EE.C.9, 6.EE.C.9)** In the equation  $w = 18h$ , the coefficient 18 is the constant rate (hourly pay rate in dollars per hour).
- 25) **Choice C is correct.** **(M.6.G.A.1, 6.G.A.1)** Triangle A:  $A = \frac{1}{2} \times 20 \times 3 = 30 \text{ in}^2$ . Triangle B:  $A = \frac{1}{2} \times 10 \times 6 = 30 \text{ in}^2$ .
- 26) **Choice D is correct.** **(M.6.G.A.1)** Rectangle area =  $10 \times 5 = 50 \text{ m}^2$ . Parallelogram area =  $10 \times 3 = 30 \text{ m}^2$ . Total =  $50 + 30 = 80 \text{ m}^2$ .



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## Author's Note

### From a Friend Who Believes in You

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#### Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 9 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Friend

# PRACTICE MORE. ACHIEVE MORE.

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 any test.

With 9 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.

## 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 math concepts aligned with standards.



### Test Confidence

Get familiar with test formats and improve accuracy.



### 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.



9 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS