

GRADE

6

MATH

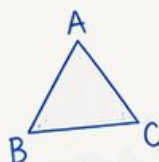
6

# Wisconsin Forward Exam

## PRACTICE TESTS

Standards-Aligned  
Steady Southern  
Problem Solving for  
Comprehensive  
Assessment Program

$2x + 3 = 11$



$7^2 = 49$

BUILD SKILLS.  
GAIN CONFIDENCE.  
**SUCCEED!**



### 6 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



### 6 PRINTED TESTS + 2 ONLINE TESTS

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



### PRACTICE

Sharpen skills with targeted practice tests



### REVIEW

Understand concepts and strengthen skills

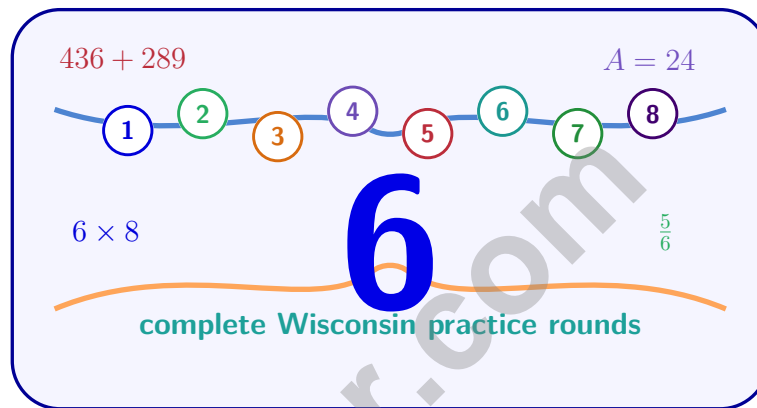


### SUCCEED

Build confidence and achieve your best

# 6 Wisconsin Forward Exam Grade 6 Math Practice Tests

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



Six 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 six 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 six-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	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.



Scan me!  
For more practice  
& answers

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1) Which three numbers are correctly ordered from least to greatest?

A.  $-2.1, -1.9, 0.5$

C.  $0.5, -1.9, -2.1$

B.  $-1.9, -2.1, 0.5$

D.  $-1.9, 0.5, -2.1$

2) Solve for  $x$ :  $\frac{x}{2.5} = 6$

A.  $x = 2.4$

C.  $x = 15$

B.  $x = 8.5$

D.  $x = 3.6$

3) A plant must grow to a height of more than 12 inches to be considered mature. Which inequality represents the height  $h$ ?

A.  $h \geq 12$

C.  $h < 12$

B.  $h \leq 12$

D.  $h > 12$

4) Rewrite  $3(4 + 5) + 2(4 + 5)$  by **factoring out**  $(4 + 5)$  as one product (one pair of grouped factors multiplying).

A.  $(3 + 2)(4 + 5)$

C.  $5(14)$

B.  $3 \cdot 4 + 3 \cdot 5 + 2 \cdot 4 + 2 \cdot 5$

D.  $(3 \times 4) + (2 \times 5)$

5) After simplifying  $8y + 3 - 2y + 5y - 1$ , what is the coefficient of  $y$ ?



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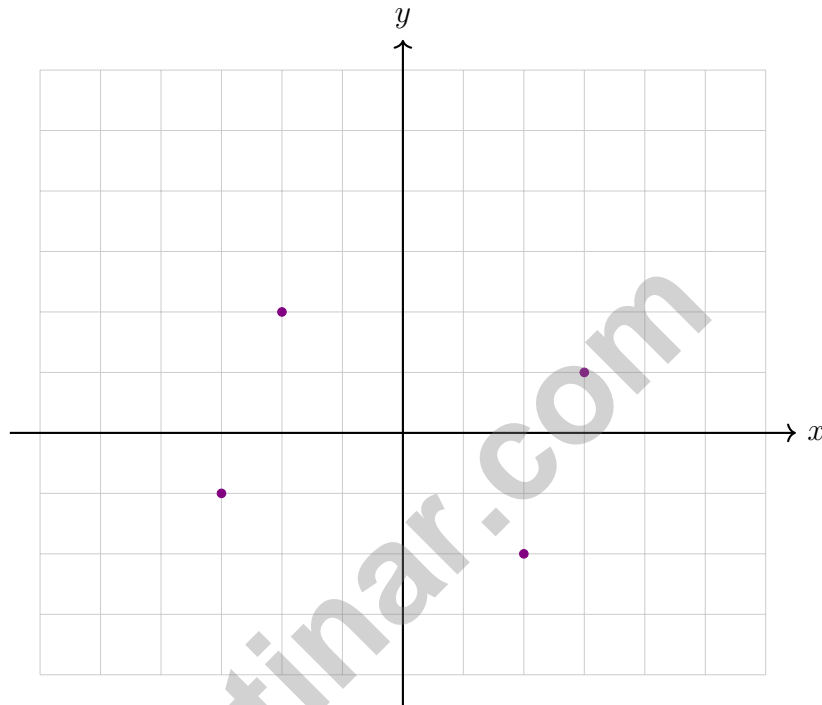
6) Which decimal is equivalent to  $-\frac{2}{5}$ ?

A. -0.2

C. -0.4

B. -0.25

D. -0.5



7)

How many of the plotted points are in Quadrant I?

A. 1

C. 3

B. 2

D. 4

8) What is the sign of the product  $(-1) \times (-1) \times (-1)$ ?

A. Positive

C. Zero

B. Cannot be determined

D. Negative



- 9) A company had a profit of \$50,000 in month 1. In month 2, they had a loss of \$12,000. What is their combined profit or loss?
- A. \$62,000 loss                       C. \$38,000 loss  
 B. \$62,000 profit                     D. \$38,000 profit
- 10) Evaluate:  $(7 - 4)^2 + 5$
- A. 8                                       C. 21  
 B. 14                                     D. 53
- 11) Which expression represents “a number  $s$  increased by 6”?
- A.  $6 - s$                                C.  $s - 6$   
 B.  $s + 6$                                D.  $6s$
- 12) Start with  $4x + 8 + 3x$ . After combining like terms, what is the coefficient of  $x$ , and what is the constant?
- A. Coefficient: 4; Constant: 8                       C. Coefficient: 12; Constant: 0  
 B. Coefficient: 3; Constant: 12                     D. Coefficient: 7; Constant: 8



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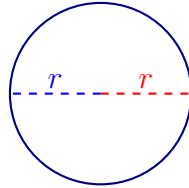
1) Which pair of ratios are NOT equivalent?

A. 2 : 5 and 4 : 10

C. 4 : 8 and 1 : 3

B. 3 : 7 and 6 : 14

D. 5 : 6 and 10 : 12



2)

If  $r = 2.5$  cm, what is  $d$ ?

If a circle has a radius of 2.5 cm, what is the diameter?

A. 1.25 cm

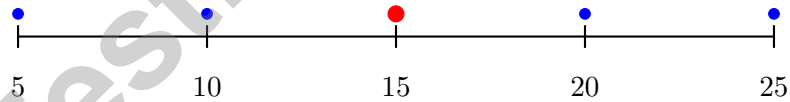
C. 5 cm

B. 2.5 cm

D. 6.25 cm

3) Find the mean of the 5 values shown. Which also equals the median?

Mean & Median



A. 10

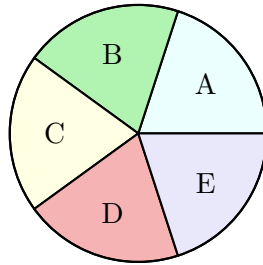
C. 20

B. 25

D. 15



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& answers



4)

A spinner has 5 equal sections labeled A, B, C, D, and E. What is the probability of spinning A?

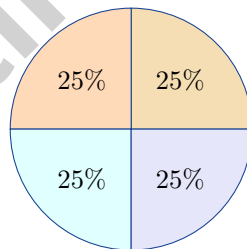
- A.  $\frac{1}{5}$   
 B.  $\frac{2}{5}$

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

5) Using the temperature data from Question 5, which temperature appears most frequently (the mode)?

- A. No mode  
 B. 41°F

- C. 44°F  
 D. 48°F



6)

The circle graph shows equal portions of 120 total items. What is the measure of the central angle for each section?

- A. 45°  
 B. 75°

- C. 120°  
 D. 90°



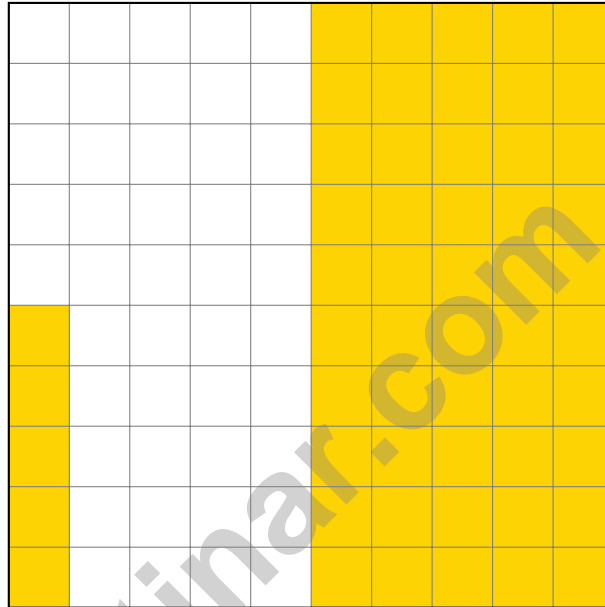
1) Which expression has exactly 4 terms?

A.  $2a + 5$

C.  $6m$

B.  $3x + 2y + 4z + 1$

D.  $7p + 3q$



2)

What percent of the grid is shaded yellow?

A. 35%

C. 50%

B. 45%

D. 55%

3) A sports team's record shows wins and losses in the ratio 4 : 1. If the team has 4 losses, how many wins does it have?

A. 1 win

C. 5 wins

B. 4 wins

D. 16 wins



4) A painter paints 48 square feet in 2 hours. What is the rate in square feet per hour?

- A. 20 square feet per hour       C. 50 square feet per hour  
 B. 96 square feet per hour       D. 24 square feet per hour

5) A coffee shop sells 3 lattes for \$12. At this rate, how much do 7 lattes cost?

- A. \$24       C. \$32  
 B. \$28       D. \$36

6) A recipe calls for sugar and eggs in the ratio 2 : 3. A table shows quantities for different servings:

Sugar (cups)	Eggs
2	3
4	6
6	?

- A. 7       C. 9  
 B. 8       D. 10

7) A map has a scale of 1 inch = 10 miles. If two cities are 3.5 inches apart on the map, how far apart are they in reality?

- A. 30 miles       C. 35 miles  
 B. 31.5 miles       D. 40 miles



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**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.**



Scan me!  
For more practice  
& answers

## Wisconsin Practice Test Answers and Explanations

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

### Practice Test 1 Answers and Explanations

- Choice A is correct.** **(M.6.NS.C.7d)**  $-2.1 < -1.9 < 0.5$ . Negatives come before positives; among negatives, more negative is less.
- Choice C is correct.** **(M.6.EE.B.5)** Multiply both sides by 2.5:  $x = 6 \times 2.5 = 15$ .
- Choice D is correct.** **(M.6.EE.B.8)** “More than 12” means strictly greater:  $h > 12$ .
- Choice A is correct.** **(M.6.NS.B.4)** Treat  $(4 + 5)$  like a chunky variable and slide it outside:  $3(4 + 5) + 2(4 + 5) = (3 + 2)(4 + 5)$ . Choice B totals 45, but shows every miniature product—not one clean factored form. Choice C mistakenly multiplies by 14, and Choice D chops the parentheses.
- The correct answer is 11.** **(M.6.EE.A.3)** Combine  $y$  terms:  $8y - 2y + 5y = 11y$ .
- Choice C is correct.** **(M.6.NS.C.6c, 6.NS.C.6c)**  $\frac{2}{5} = \frac{4}{10} = 0.4$ , so  $-\frac{2}{5} = -0.4$ .
- Choice A is correct.** **(M.6.NS.C.8, 6.NS.C.8)** Only the point  $(3, 1)$  has both positive  $x$  and positive  $y$  coordinates, placing it in Quadrant I.
- Choice D is correct.** **(M.6.NS.B.2)** Three negatives (odd count):  $(-1) \times (-1) = 1$  (positive), then  $1 \times (-1) = -1$  (negative). An odd number of negatives yields a negative product.
- Choice D is correct.** **(M.6.EE.A.3)** Profit minus loss:  $50,000 - 12,000 = \$38,000$  profit.
- Choice B is correct.** **(M.6.EE.A.1, 6.EE.A.1)** Parentheses first:  $7 - 4 = 3$ . Exponent next:  $3^2 = 9$ . Finally add:  $9 + 5 = 14$ .
- Choice B is correct.** **(M.6.EE.A.2a)** “Increased by 6” means add 6. So  $s$  increased by 6 is  $s + 6$ .
- Choice D is correct.** **(M.6.EE.A.2b)** Combine like terms:  $4x + 3x = 7x$ . The constant 8 does not combine. Final:  $7x + 8$ .
- The correct answer is 0.8.** **(M.6.EE.C.9, 6.EE.C.9)** The graph shows the line passes through  $(5, 4)$  and  $(10, 8)$ . The slope (rate of change) is  $\frac{8-4}{10-5} = \frac{4}{5} = 0.8$  calories per minute.
- Choice A is correct.** **(M.6.EE.B.6, 6.EE.B.6)** After earning money, the total is the starting amount plus earnings:  $15 + d$ .
- The correct answer is 24.** **(M.6.G.A.1)** Width:  $8 - 2 = 6$  units. Height:  $6 - 2 = 4$  units. Area =  $6 \times 4 = 24$  square units.
- Choice B is correct.** **(M.6.EE.B.8)** “At least” means “greater than or equal to,” so  $w \geq 15$ .
- Choice C is correct.** **(M.6.G.A.1, 6.G.A.1)** Rectangle area is  $10 \times 6 = 60 \text{ cm}^2$ . Triangle area is  $\frac{1}{2} \times 10 \times 4 = 20 \text{ cm}^2$ . The total area is  $60 + 20 = 80 \text{ cm}^2$ .
- Choice D is correct.** **(M.6.G.A.1)** Area =  $\frac{1}{2}(25 + 15) \times 8 = \frac{1}{2}(40)(8) = 160 \text{ m}^2$ .
- Choice D is correct.** **(6.G.A.2)**  $36 = 4.5 \times W \times 4 = 18 \times W$ , so  $W = 2$  ft.
- The correct answer is  $2.4 \times 2 = 4.8$  and  $9.6 \div 2 = 4.8$ .** **(M.6.NS.B.3, 6.NS.B.3)** A equals 4.8 because  $2.4 \times 2 = 4.8$ . B equals 4.8 because  $9.6 \div 2 = 4.8$ . Choices C, D, and E give 4.9, 3.9, and 4.2.
- Choice D is correct.** **(M.6.G.A.3, 6.G.A.3)** Length =  $6 - 1 = 5$  units; width =  $4 - 1 = 3$  units. Area =  $5 \times 3 = 15$  square units.
- Choice A is correct.** **(M.6.NS.C.8)** Reflection over the  $y$ -axis negates the  $x$ -coordinate:  $(-2, -2) \rightarrow (2, -2)$ .
- Choice B is correct.** **(6.RP.A.1)** Area =  $\pi r^2 \approx 3.14 \times 2^2 = 3.14 \times 4 = 12.56 \text{ cm}^2$ .
- Choice D is correct.** **(M.6.SP.B.5c)** For D: mean =  $\frac{35}{5} = 7$ , median = 7 (middle of 5 values). Symmetric data ensures mean = median.
- Choice D is correct.** **(M.6.SP.B.4, 6.SP.B.4)** For a symmetric distribution, the mean and median are roughly equal, both clustering near the center peak at 35 years.
- Choice C is correct.** **(M.6.SP.B.5b)** The spinner has only red, blue, yellow, and green sections. Purple is impossible because it does not appear on the spinner.



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For more practice  
& answers

Captain's Log

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## Ahoy, Math Sailor!

◇ You sailed through 6 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

### Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

**Captain's tip:** on test day, sail steady. Trust the map you built through 6 practice tests. You will reach safe harbor!

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 Captain

# PRACTICE 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 6 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.

6  
PRINTED  
TESTS

+  
2  
ONLINE  
TESTS

## PERFECT FOR:

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

★ BUILD SKILLS.  
GAIN CONFIDENCE.  
SUCCEED!

## 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.



6 FULL-LENGTH  
PRINTED TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS