

# 4 Wisconsin Forward Exam

GRADE  
**6**  
MATH

## PRACTICE TESTS

Standards Aligned Problem Solving  
For Comprehensive Assessment Programs

**4**

**PRINTED  
TESTS**



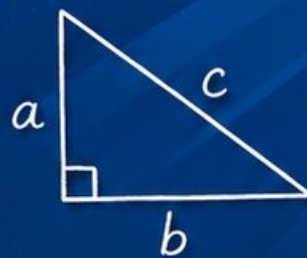
**2**

**ONLINE  
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$

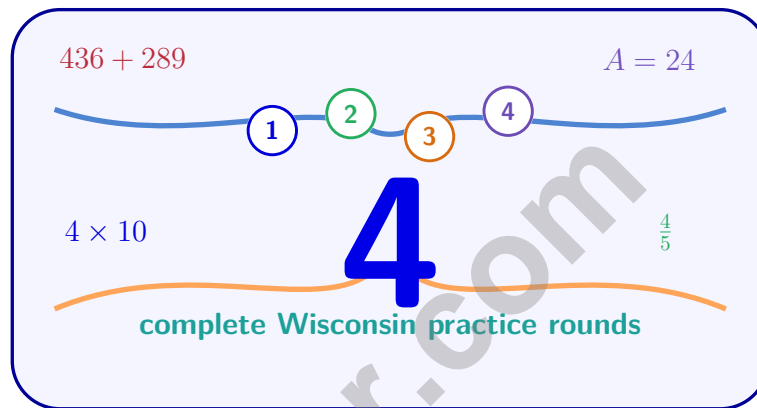


**USE THESE TWO  
ADDITIONAL ONLINE  
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER  
THE PRINTED TESTS  
IN THIS BOOK.**

# 4 Wisconsin Forward Exam Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using forward-moving review

This book gives you four 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 four-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?

Four Forward Exam tests, 160 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 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
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) Solve for  $x$ :  $\frac{x}{1.5} = 8$

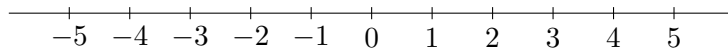
A.  $x = 12$

C.  $x = 9.5$

B.  $x = 6.5$

D.  $x = 5.33$

2) Which number line correctly shows the position of  $-5$ ?



What is the correct location of  $-5$  on the number line above?

A. Between  $-6$  and  $-4$ , closer to  $-4$

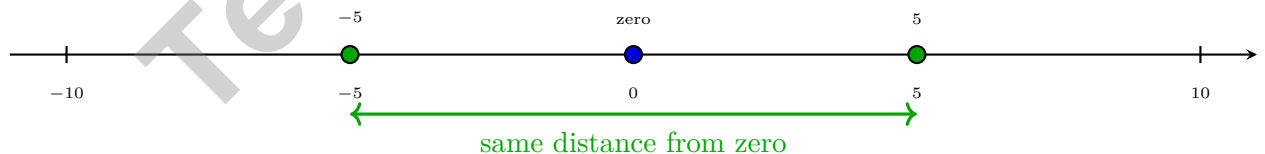
C. At the fifth tick mark to the left of

B. At the fifth tick mark to the right  
of zero

zero  
 D. Exactly at zero

3) In a group of 200 people, 50 are left-handed. What percent are left-handed?

4)



Which numbers shown on the number line have an absolute value of 5?

A. Only 5

C. Both 5 and  $-5$

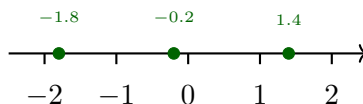
B. Only  $-5$

D. Only 0



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5) Which number line correctly shows points at  $-1.8$ ,  $-0.2$ , and  $1.4$ ?



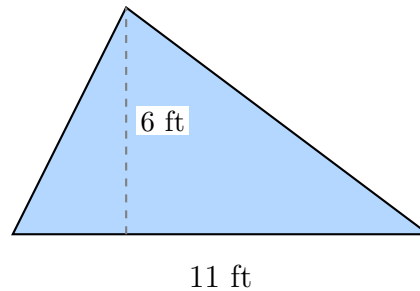
- A. All three points are to the left of zero  
 B. All three points are to the right of zero  
 C. Two points are negative and one is positive  
 D. The points are equally spaced
- 6) A reflection across both axes is equivalent to a rotation around the origin. If you reflect  $(a, b)$  across the  $x$ -axis and then across the  $y$ -axis, the result is:
- A.  $(-a, b)$   
 B.  $(a, -b)$   
 C.  $(-a, -b)$   
 D.  $(b, a)$
- 7) Compare  $-4$  and  $-1$  using  $<$ ,  $>$ , or  $=$ . Which symbol belongs in the box?

$$-4 \square -1$$

- A.  $<$   
 B.  $>$   
 C.  $=$   
 D. Cannot be determined
- 8) A phone plan costs \$30 per month plus a one-time setup fee of \$25. If  $m$  is the number of months and  $C$  is the total cost, which equation represents this?
- A.  $C = 30m$   
 B.  $C = 25m$   
 C.  $C = 30m + 25$   
 D.  $C = 25m + 30$



- 9) A landscape architect designs a triangular garden bed. The base measures 11 feet and the height is 6 feet. What is the area available for planting?



- A.  $17 \text{ ft}^2$                        C.  $66 \text{ ft}^2$   
 B.  $33 \text{ ft}^2$                        D.  $132 \text{ ft}^2$
- 10) A parallelogram has a base of 12 cm and an area of  $60 \text{ cm}^2$ . What is its height?
- A. 3 cm                               C. 6 cm  
 B. 8 cm                               D. 5 cm
- 11) A rectangular prism has volume 45 cubic inches. Its length is 6 inches and width is  $\frac{5}{2}$  inches. What is its height?
- A. 2 in                               C. 5 in  
 B. 6 in                               D. 3 in
- 12) A polygon has vertices at (2, 3), (2, 7), and (6, 3). What shape is this?
- A. Triangle                           C. Square  
 B. Trapezoid                         D. Pentagon



Scan me!  
For more practice  
& answers

1) Which phrase is closest in meaning to  $m < 9$ ?

- A.  $m$  is at most 9  
 B.  $m$  is no less than 9  
 C.  $m$  is greater than 9  
 D.  $m$  is less than 9

2) A student wants to know the favorite type of pet for students in her school. She surveys 50 random students. What is the population she is trying to study?

- A. The 50 students she surveyed  
 B. All pets in the school  
 C. All students in the school  
 D. People who own pets

3) A frequency table is created from survey data on movie preferences. The table shows: Action: 12; Comedy: 18; Drama: 9; Horror: 6. If this data is represented in a bar graph, which category has the highest bar?

Genre	Frequency
Action	12
Comedy	18
Drama	9
Horror	6

- A. Action  
 B. Comedy  
 C. Drama  
 D. Horror

4) Which part of a box plot represents the bottom 25% of the data?

- A. The lower whisker.  
 B. The left side of the box.  
 C. The median line.  
 D. The upper whisker.



Scan me!  
For more practice  
& answers

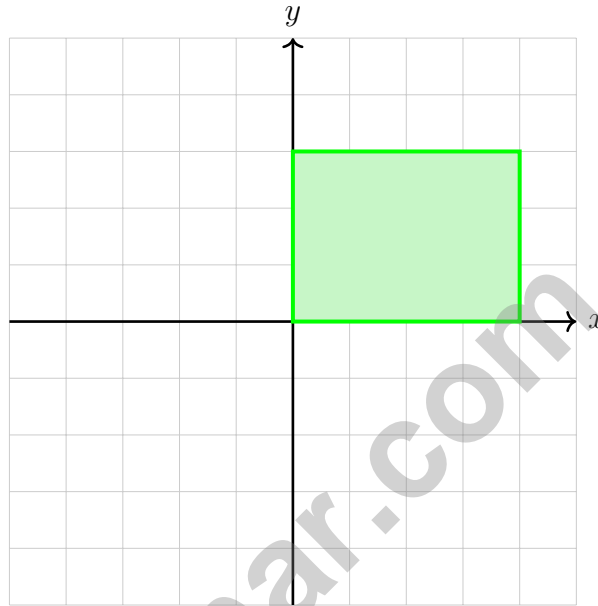
5) If the probability of success is 0.85, what is the probability of failure?

A. 0.15

C. 0.35

B. 0.25

D. 0.50



6)

A rectangle has vertices at  $(0, 0)$ ,  $(4, 0)$ ,  $(4, 3)$ , and  $(0, 3)$ . If the rectangle is translated 2 units to the left and 1 unit up, what are the new coordinates of the vertex that was originally at  $(4, 0)$ ?



1) A store manager wants to know the “typical” shoe size sold. Which measure of center would be most useful?

- A. Mean  C. Mode  
 B. Median  D. Range

2) A scale of 1 cm = 3 m is used to draw a plan. If the actual width of a room is 9 m, what is the width in the drawing?

- A. 2 cm  C. 4 cm  
 B. 3 cm  D. 5 cm

3) A water bottle contains  $\frac{5}{6}$  liter. How many  $\frac{1}{12}$ -liter cups can be filled?

- A. 5  C. 10  
 B. 8  D. 12

4) A recipe uses 1.5 cups of sugar. If you triple the recipe, how much sugar is needed?

$$\boxed{1.5 \text{ cups}} \times 3 \longrightarrow ?$$

- A. 3.5 cups  C. 5.0 cups  
 B. 4.5 cups  D. 4.0 cups

5) Which is a multiple of both 4 and 6?

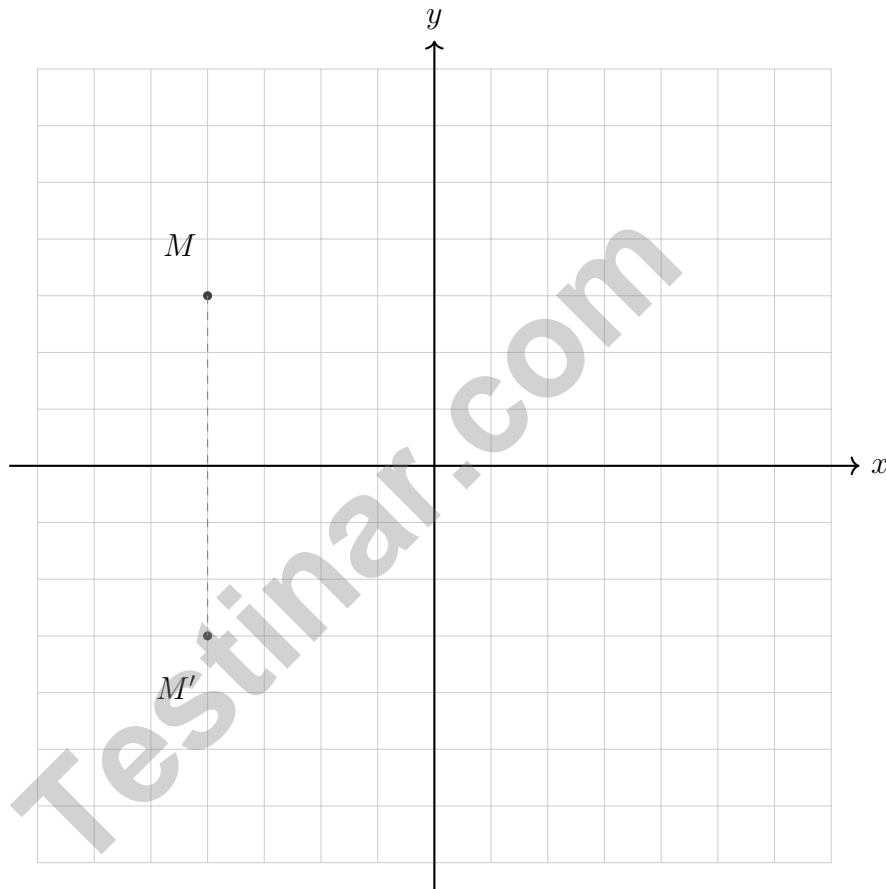
- A. 8  C. 18  
 B. 12  D. 10



6) On a number line, if point A is at  $-\frac{5}{6}$  and point B is at  $\frac{1}{6}$ , what is the distance between them?

- A.  $\frac{1}{6}$   
 B.  $\frac{2}{3}$

- C. 1  
 D.  $1\frac{1}{6}$



7)

Points  $M$  and  $M'$  are shown above. Across which axis were these points reflected?

- A. Across the  $x$ -axis  
 B. Across the  $y$ -axis

- C. Across both axes  
 D. They are not reflections



Scan me!  
 For more practice  
 & answers

**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!  
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& answers

## Wisconsin Practice Test Answers and Explanations

Review the four 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.EE.B.5)** Multiply both sides by 1.5:  $x = 8 \times 1.5 = 12$ .
- Choice C is correct.** **(M.6.NS.C.5, 6.NS.C.5)** On a number line, negative numbers are to the left of zero.  $-5$  is located five units to the left of zero.
- The correct answer is 25%.** **(6.RP.A.3)**  $\frac{50}{200} = \frac{25}{100} = 25\%$  (divide both by 2).
- Choice C is correct.** **(M.6.NS.C.7c)** Both  $|5| = 5$  and  $|-5| = 5$ . Numbers equidistant from zero on opposite sides have the same absolute value.
- Choice C is correct.** **(M.6.NS.C.6c, 6.NS.C.6c)**  $-1.8$  and  $-0.2$  are negative (left of zero), and  $1.4$  is positive (right of zero).
- Choice C is correct.** **(M.6.NS.C.8, 6.NS.C.8)** First reflect across the  $x$ -axis:  $(a, b) \rightarrow (a, -b)$ . Then reflect across the  $y$ -axis:  $(a, -b) \rightarrow (-a, -b)$ .
- Choice A is correct.** **(M.6.NS.C.7d)**  $-4$  is further left on a number line than  $-1$ , so  $-4$  is less than  $-1$ .
- Choice C is correct.** **(M.6.EE.C.9, 6.EE.C.9)** Total cost equals the monthly fee times months plus the one-time setup fee:  $C = 30m + 25$ .
- Choice B is correct.** **(M.6.G.A.1, 6.G.A.1)**  $A = \frac{1}{2} \times 11 \times 6 = 33 \text{ ft}^2$ .
- Choice D is correct.** **(M.6.G.A.1)** Area =  $b \times h$ , so  $60 = 12 \times h$ . Dividing both sides by 12:  $h = 5$  cm.
- Choice D is correct.** **(6.G.A.2)** From  $V = L \times W \times H$ :  $45 = 6 \times 2.5 \times H$ , so  $45 = 15 \times H$ , giving  $H = 3$  in.
- Choice A is correct.** **(M.6.G.A.3, 6.G.A.3)** Three vertices form a triangle, which is a three-sided polygon.
- Choice A is correct.** **(6.RP.A.3)** Change in elevation:  $1,850 - 1,200 = 650$  feet.
- Choice A is correct.** **(M.6.SP.B.5c, 6.SP.B.5c)** A higher MAD indicates greater average distance from the mean, so Set X with MAD = 3.5 has more spread than Set Y with MAD = 1.8.
- Choice A is correct.** **(M.6.SP.B.5)** Standard deviation measures spread. Hawks' lower standard deviation ( $8 < 14$ ) indicates more consistent scoring around their mean.
- Choice D is correct.** **(M.6.SP.B.4)** Each section is 25% of the whole.  $25\% \text{ of } 200 = 0.25 \times 200 = 50$  students per section.
- Choice B is correct.** **(M.6.NS.C.7d)** Tax:  $8\% \text{ of } \$64 = 0.08 \times 64 = \$5.12$ . Total:  $\$64 + \$5.12 = \$69.12$ .
- Choice C is correct.** **(M.6.NS.C.7d)** The flour amount doubled from 3 cups to 6 cups. Keep the same ratio by doubling the eggs too:  $2 \times 2 = 4$  eggs.
- The correct answer is 60.** **(6.RP.A.3)** Markup is 50% of  $\$40 = 0.50 \times 40 = \$20$ . Selling price is  $\$40 + \$20 = \$60$ .
- The correct answer is 9.** **(6.RP.A.3, M.6.RP.A.3)** Ratio 5 : 3 with 15 red marbles: each part is  $15 \div 5 = 3$  marbles. Blue marbles:  $3 \times 3 = 9$ .
- Choice D is correct.** **(M.6.EE.C.9)** Total allocated:  $\$3000 + \$2000 + \$1500 + \$1500 = \$8000$ . Unallocated:  $\$10000 - \$8000 = \$2000 = 20\%$  of  $\$10000$ .
- The correct answer is The constant of proportionality is 4, and the cost per unit is \$4.** **(M.6.NS.C.6c)** A is correct because  $k = \frac{8}{2} = 4$ . B is correct because the cost per unit is \$4. The equation is  $y = 4x$ , so Choice C is false; Choice D is false because the graph passes through  $(0, 0)$ ; Choice E gives the wrong unit rate.
- Choice A is correct.** **(6.RP.A.3)** Divide:  $3 \text{ m} \div 6 \text{ cm} = 0.5 \text{ m per cm}$ . Scale is  $1 \text{ cm} = 0.5 \text{ m}$ .
- Choice D is correct.** **(M.6.NS.A.1)**  $\frac{7}{10} \div \frac{1}{5} = \frac{7}{10} \times 5 = \frac{35}{10} = \frac{7}{2} = 3\frac{1}{2}$ . So the chef can make  $3\frac{1}{2}$  small batches.
- Choice A is correct.** **(M.6.NS.B.3, 6.NS.B.3)** Multiply both by 10:  $8.4 \div 7 = 1.2$ .
- Choice A is correct.** **(M.6.NS.B.4, 6.NS.B.4)**  $48 = 16 \times 3 = 2 \times 2 \times 2 \times 2 \times 3 = 2^4 \times 3$ . Option B uses composite 6; C and D use composite factors.



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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 4 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 TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 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:

**4** 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

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



### 2 ONLINE TESTS

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



**VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)**  
FOR MORE PRACTICE TESTS  
AND LEARNING RESOURCES



PRACTICE  
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