

Wisconsin Forward Exam

GRADE 6 MATH PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



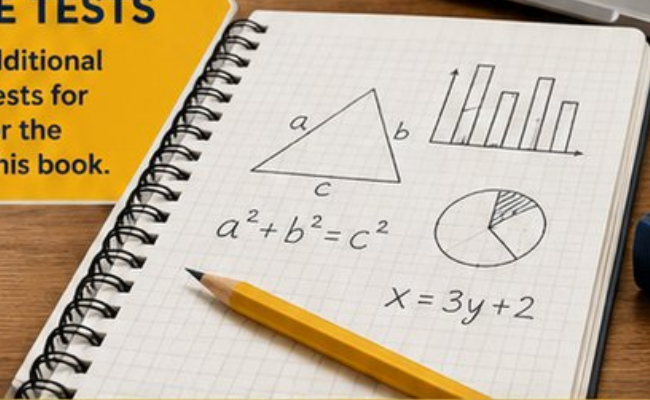
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



5 Wisconsin Forward Exam Grade 6 Math Practice Tests

Standards-Aligned Forward-Moving Review for Wisconsin Forward Exam



Five 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.

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Welcome, Wisconsin Math Explorer!

Eight focused rounds using forward-moving review

This book gives you five 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 five-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 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	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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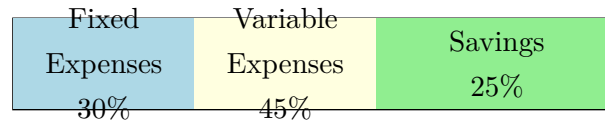
1) Evaluate $-2x + y - 3$ when $x = -1$ and $y = -5$.

A. -10

C. 0

B. -4

D. 4



2) Monthly Income = \$1000

Based on the budget bar above, which category has the highest dollar amount?

A. Fixed Expenses (\$300)

C. Savings (\$250)

B. All three are equal.

D. Variable Expenses (\$450)

3) If a box plot shows $Q_1 = 50$ and $Q_3 = 80$, how much greater is Q_3 than Q_1 ?

4) A bag contains 9 marbles. If the probability of drawing a green marble is $\frac{1}{3}$, how many green marbles are in the bag?



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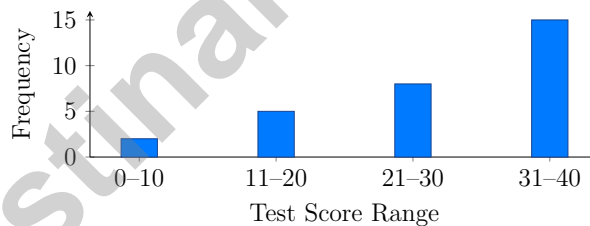
- 5) A bakery sells 24 cookies for \$6.00. What is the unit price per cookie?
- A. \$0.15 per cookie C. \$0.25 per cookie
 B. \$0.20 per cookie D. \$0.30 per cookie
- 6) Tanya is solving: “If \$2 costs 8 apples, how much do 20 apples cost?” She calculates: $\$2 \times 20 \div 8 = \5 . Is her work correct?
- A. Yes, her answer is correct C. No, she divided by 8 instead of multiplying by the unit rate
 B. No, she forgot to simplify D. No, her setup was backwards
- 7) What is $1,248 \div 24$?
- A. 52 C. 42
 B. 48 D. 62
- 8) Which statement best describes the interquartile range (IQR)?
- A. The difference between the highest and lowest values C. The average of all values
 B. The middle half of the data D. The most frequently occurring value
- 9) A painter mixes blue and yellow paint in a ratio of 5 : 3. How much yellow paint is needed if the painter uses 25 units of blue?
- A. 10 units C. 30 units
 B. 20 units D. 15 units



- 1) A runner completes 5 miles in 50 minutes. The table below shows equivalent distances and times. Which time is missing?

Distance (miles)	Time (minutes)
5	50
10	100
15	?

- A. 120 C. 150
 B. 140 D. 160
- 2) A histogram shows the test scores for a class of 30 students, grouped into ranges. The bars show: 0–10 has height 2, 11–20 has height 5, 21–30 has height 8, and 31–40 has height 15. How many students scored between 21 and 30?



- A. 5 students C. 15 students
 B. 8 students D. 10 students



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& answers

3) A student reads a box plot and says: “The median is 22, so 22 is in the middle of the data.” Which best describes the error?

- A. The median is not in the middle of the data.
- B. The median is a data value that separates the lower half from the upper half, not necessarily the center of the spread.
- C. The median is always the average of two numbers.
- D. The median cannot be determined from a box plot.

4) A restaurant offers a choice of 3 soups, 4 main dishes, and 2 desserts. How many different meal combinations are possible if you choose one item from each category?

- A. 9
- B. 12
- C. 24
- D. 36

5) A weather station records daily humidity (as a percent):

Stem	Leaf
5	8, 9
6	1, 2, 5, 7
7	0, 3, 8
8	2, 5, 9

Approximately what percent of readings were between 60% and 79%?

- A. 40%
- B. 50%
- C. 60%
- D. 70%



1) What is $|-8|$?

A. -8

B. 8

C. 0

D. 16

2) A circular running track has a radius of 50 meters. Using $\pi \approx 3.14$, what is the approximate area of the track?

A. 157 m^2

B. 314 m^2

C. 7850 m^2

D. 15700 m^2

3) Which value is an outlier in the data set 8, 9, 10, 11, 50?

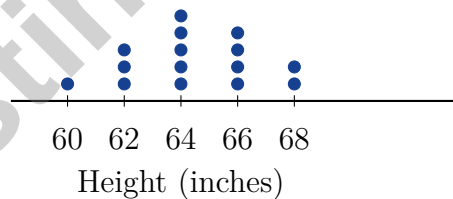
A. 8

B. 11

C. 9

D. 50

4) A dot plot shows student heights (in inches). The frequencies are: 60 in: 1; 62 in: 3; 64 in: 5; 66 in: 4; 68 in: 2. Which statement is false?



A. The mode is 64 inches

B. The total number of students is 15

C. The median height is 64 inches

D. More than half the students are 66

inches or taller



Scan me!
For more practice
& answers

5) Which fraction best represents an event that is **very likely** to occur?

A. $\frac{1}{10}$

B. $\frac{2}{5}$

C. $\frac{4}{5}$

D. $\frac{1}{20}$

6) A back-to-back stem-and-leaf plot displays boys' and girls' heights (in inches). Who has the greater range of heights?

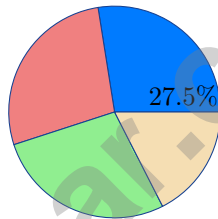
Boys	Stem	Girls
7, 4, 1	60	2, 3, 5, 8

A. Boys; range is 6

B. Girls; range is 6

C. Boys; range is 7

D. Both have equal range



7)

A survey asked 360 people about favorite season. The circle graph shows 27.5% prefer summer. How many people prefer summer?

A. 99

B. 90

C. 108

D. 117

8) A classroom has 8 boys and 10 girls. Write the ratio of boys to girls in the form “ a to b ”.

A. 10 to 8

B. 18 to 8

C. 8 to 18

D. 8 to 10



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

Practice Test 1 Answers and Explanations

- Choice C is correct. **(M.6.EE.A.2c, 6.EE.A.2c)** Substitute: $-2(-1) + (-5) - 3 = 2 - 5 - 3 = 0$.
- Choice D is correct. **(M.6.EE.C.9)** Fixed: $30\% \times \$1000 = \300 . Variable: $45\% \times \$1000 = \450 . Savings: $25\% \times \$1000 = \250 . Variable expenses is the largest.
- The correct answer is 30. **(6.RP.A.1)** $Q_3 - Q_1 = 80 - 50 = 30$.
- The correct answer is 3. **(M.6.SP.B.5b)** Number of green marbles = $\frac{1}{3} \times 9 = 3$.
- Choice C is correct. **(6.RP.A.1)** Divide total cost by number of cookies: $6.00 \div 24 = 0.25$ dollars per cookie.
- Choice A is correct. **(6.RP.A.3, M.6.RP.A.3)** Unit cost: $2 \div 8 = 0.25$ per apple. For 20 apples: $0.25 \times 20 = 5$ dollars. Her cross-multiplication approach also gives $2 \times 20 \div 8 = 40 \div 8 = 5$.
- Choice A is correct. **(M.6.NS.B.2, 6.NS.B.2)** Use long division or estimation: $24 \times 50 = 1,200$, leaving 48. Then $48 \div 24 = 2$, so $1,248 \div 24 = 52$.
- Choice B is correct. **(M.6.SP.A.2, 6.SP.A.2)** IQR = $Q_3 - Q_1$, representing the spread of the middle 50% of the data. Range is $\text{max} - \text{min}$; mean is the average; mode is the most frequent.
- Choice D is correct. **(6.RP.A.1)** The 5 blue parts stand for 25 units, so each part is $25 \div 5 = 5$ units. Yellow is 3 parts, so $3 \times 5 = 15$ units.
- Choice A is correct. **(6.RP.A.3)** Milk is the 3-part amount. Since $45 \div 3 = 15$, each part is 15 fl oz, and chocolate syrup is 2 parts: $2 \times 15 = 30$ fl oz.
- Choice B is correct. **(6.RP.A.2)** Extra Virgin: $\$12.75 \div 25.5 = \$0.50/\text{oz}$. Pure: $\$24.48 \div 51 = \$0.48/\text{oz}$. Light: $\$34.00 \div 68 = \$0.50/\text{oz}$. Pure has the lowest unit price.
- Choice D is correct. **(6.RP.A.3, M.6.RP.A.3)** The ratio is 9 : 11. When non-fiction is 33 (multiply by 3), fiction is $9 \times 3 = 27$.
- Choice A is correct. **(M.6.NS.C.6c)** Swapping the x and y coordinates of (8, 5) gives (5, 8). This is a common error when plotting ratio pairs on a coordinate plane.
- Choice C is correct. **(6.RP.A.3)** Shaded: 4 columns \times 10 rows = 40 squares. Unshaded: $100 - 40 = 60$ squares.
- Choice C is correct. **(6.RP.A.3)** $\frac{88}{100} = 0.88 = 88\%$.
- Choice B is correct. **(6.RP.A.3)** Multiply: $2 \times 8 = 16$ pints.
- Choice C is correct. **(M.6.NS.C.7d)** Total ratio parts: $3 + 2 + 1 = 6$. Savings share: $\frac{3}{6} \times \$200 = \frac{1}{2} \times \$200 = \$100$.
- Choice A is correct. **(M.6.NS.C.7d)** The proportional relationship between distance and time is $d = 15t$. When $t = 0$, $d = 0$, indicating the line passes through the origin. Options B and D include constants (non-proportional), and option C reverses the variables.
- Choice C is correct. **(6.RP.A.3)** Use the scale: 3 inches \times 8 feet/inch = 24 feet.
- The correct answer is The center is the peak, and the mean, median, and mode are approximately equal.. **(M.6.SP.B.4, 6.SP.B.4)** For a symmetric, bell-shaped distribution, A is correct: the mean, median, and mode align at the center. B is correct: the classic bell curve peaks at the center and tails off symmetrically. C and D describe skewed distributions, and E would not be bell-shaped.
- Choice C is correct. **(M.6.NS.A.1)** $\frac{5}{6} \div \frac{1}{6} = \frac{5}{6} \times 6 = 5$.
- Choice A is correct. **(M.6.NS.B.3, 6.NS.B.3)** Work left to right: $9.6 - 2.7 = 6.9$, then $6.9 + 1.1 = 8.0$.
- The correct answer is 0. **(M.6.SP.B.4)** Each value appears once, so there are no modes.
- Choice C is correct. **(M.6.NS.B.4, 6.NS.B.4)** List what both numbers share evenly: candidates include 12, since $24 = 12 \times 2$ and $36 = 12 \times 3$. Nothing larger divides both cleanly, so the GCF settles at 12.
- The correct answer is 108. **(M.6.NS.B.2)** 14.4% of 750 is $0.144 \times 750 = 108$ pastries.
- Choice A is correct. **(M.6.NS.B.4)** $9(5 + 2) = 9 \cdot 5 + 9 \cdot 2 = 45 + 18 = 63$. Choice A shows the correct expanded form.



From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 5 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)

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SOLVE
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SUCCEED
BRIGHTLY

PREPARE TODAY. **SUCCEED TOMORROW!**