

10

Wisconsin Forward Exam

GRADE
6
MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



10 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



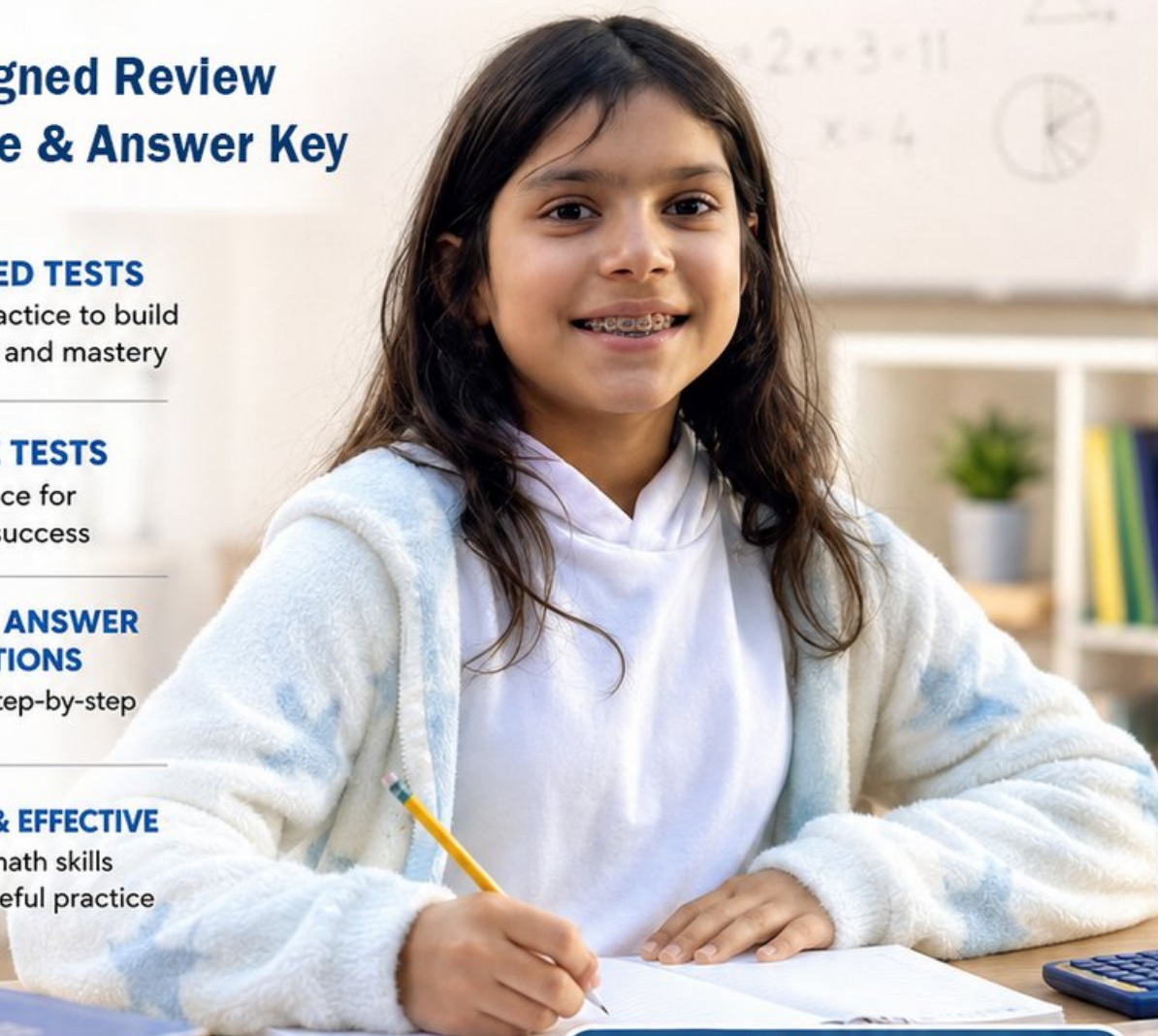
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



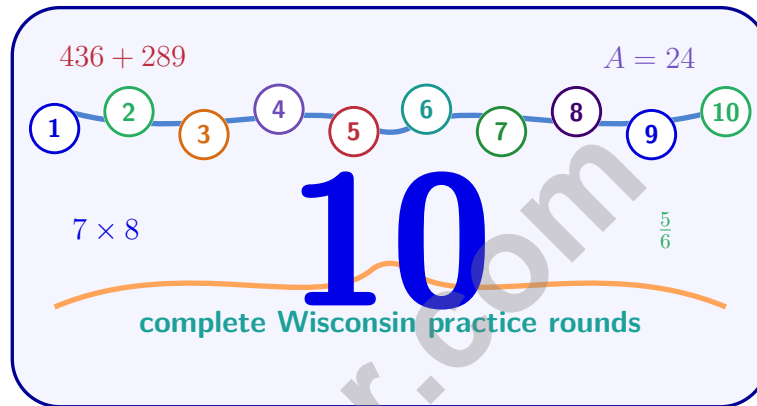
10 PRINTED TESTS
+ 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 Wisconsin Forward Exam Grade 6 Math Practice Tests

Standards-Aligned Steady, Practical Reasoning for Wisconsin Forward Exam



Ten complete 40-question Grade 6 practice rounds for Forward Exam, 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!

Ten steady rounds on a lakes-and-fields math route

This book gives you ten full Grade 6 practice tests for Forward Exam. Each round uses lake shores, farm roads, and careful number work 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

Check computations twice when the numbers are close. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for steady, practical reasoning

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Wisconsin review rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten Forward Exam tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up 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	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final Wisconsin round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

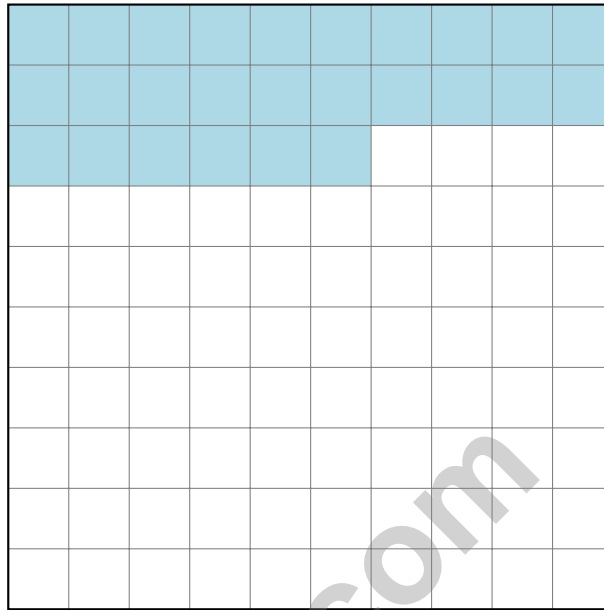
The tests are mixed on purpose. Steady, practical reasoning means recognizing the skill even when the next question changes topic.



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For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	32
★ Practice Test 3	_____	48
★ Practice Test 4	_____	66
★ Practice Test 5	_____	80
★ Practice Test 6	_____	97
★ Practice Test 7	_____	113
★ Practice Test 8	_____	128
★ Practice Test 9	_____	143
★ Practice Test 10	_____	158
Practice Test Answer Keys	_____	174
Practice Test Answers and Explanations	_____	180



1)

What percent of the grid is shaded?

- A. 26% C. 74%
- B. 30% D. 42%
- 2) Mika used long division to solve $4,284 \div 22$ and got 194 remainder 16. Is Mika's answer correct?
- A. Yes, it is correct. C. No; the remainder is 14.
- B. No; the quotient is 195. D. No; the answer is 194 remainder 2.
- 3) A recipe calls for 3 cups of flour and 9 cups of sugar. What is the simplified ratio of flour to sugar?
- A. 1 : 3 C. 1 : 9
- B. 3 : 9 D. 9 : 3



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7) A researcher created a scatter plot comparing study hours (x-axis) and test scores (y-axis) for 8 students. The dots show a loose upward trend but with some scatter. What conclusion is MOST accurate?

- A. Study hours perfectly predict test scores
- B. There is a weak positive correlation between study and scores
- C. Students who study less always score higher
- D. There is no relationship between study and test scores

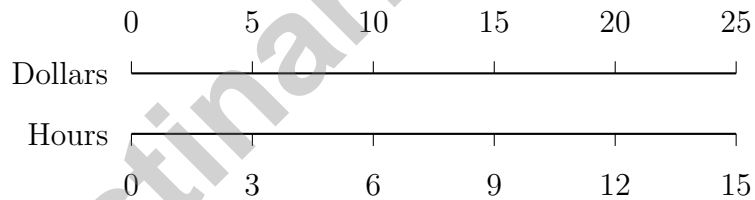
8)

Flavor	Strawberry	Vanilla	Chocolate
Servings	9	6	3

What is the simplified ratio of strawberry to vanilla servings?

- A. 9 : 6
- B. 6 : 9
- C. 2 : 3
- D. 3 : 2

9)



Based on the double number line, what is the rate in dollars per hour?

- A. $\frac{5}{3}$ dollars per hour
- B. $\frac{3}{5}$ dollars per hour
- C. 5 dollars per hour
- D. 15 dollars per hour



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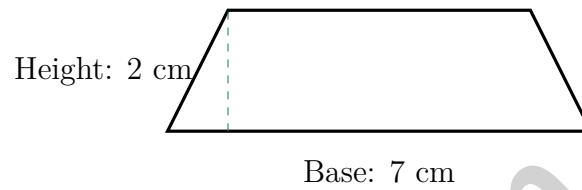
1) Four test scores have a mean of 88. Three scores are 85, 90, 92. What is the fourth score?

A. 87

C. 91

B. 89

D. 93



2)

What is the area of the parallelogram?

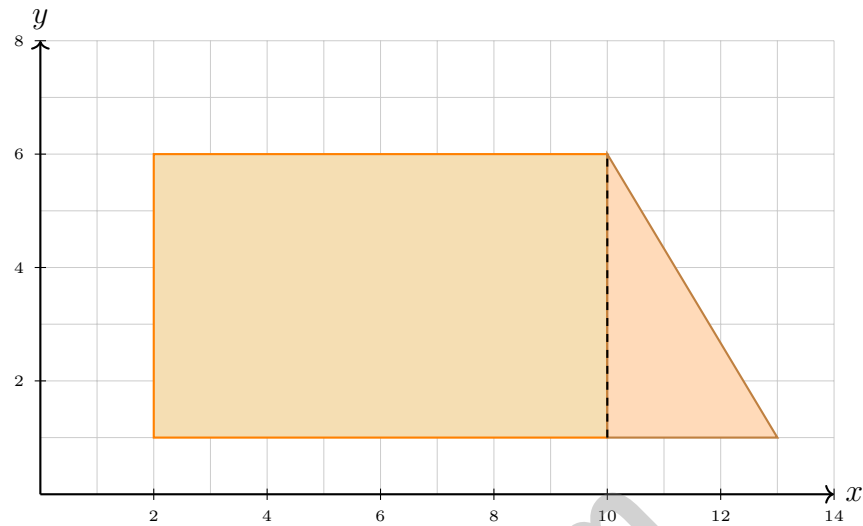
A. 9 cm^2

C. 18 cm^2

B. 28 cm^2

D. 14 cm^2





3)

A composite figure consists of a rectangle and a triangle. The rectangle has corners at $(2, 1)$, $(10, 1)$, $(10, 6)$, and $(2, 6)$. The triangle has vertices at $(10, 1)$, $(13, 1)$, and $(10, 6)$. What is the total area?

- A. 52 square units C. 62 square units
 B. 68 square units D. 47.5 square units



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1) A jewelry maker has 0.75 kilograms of silver. How many grams of silver does she have?

A. 7.5 grams

C. 750 grams

B. 75 grams

D. 7,500 grams

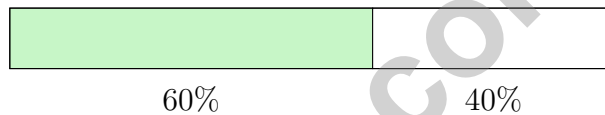
2) In a class of 30 students, 18 play soccer. What is the ratio of soccer players to non-soccer players?

A. 18 : 30

C. 3 : 2

B. 18 : 12

D. 2 : 3



Total: 150 students

3)

How many students are in the 60% section?

4) A school employee earns \$2500 per month. His retirement contribution is 6% of his salary. How much is deducted for retirement each month?

A. \$100

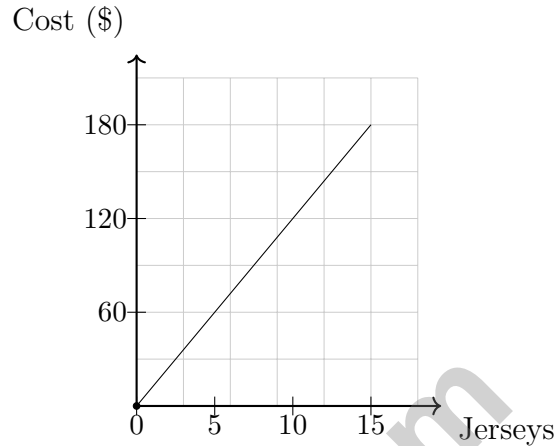
C. \$200

B. \$250

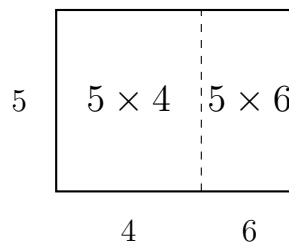
D. \$150



- 5) A soccer team buys jerseys at \$12 per jersey. The team orders 0, 5, 10, and 15 jerseys. Which graph best represents this proportional relationship?



- A. Vertical line
 B. Starts at (5, 60)
 C. Through origin; rate \$12
 D. Inverse relationship
- 6) A household plans to save \$200 per month for a vacation. How much will they save in 2 years?
- A. \$2400
 B. \$3200
 C. \$4000
 D. \$4800
- 7) The area model below represents a factored sum. What is the factored form?



- A. $5(4 + 6) = 50$
 B. $4(5 + 6) = 44$
 C. $(4 + 6)(5) = 50$
 D. $5 \times 10 = 50$



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& answers

Wisconsin Forward Exam Practice Test Answer Keys

How to use this section with a Grade 6 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice A is correct.** **(M.6.G.A.3, 6.G.A.3)** Counting the shaded squares: 18 in the upper region + 8 in the right region = 26 squares out of 100. So 26%.
- Choice A is correct.** **(M.6.EE.C.9, 6.EE.C.9)** Check by multiplying and adding the remainder: $22 \times 194 = 4,268$, and $4,268 + 16 = 4,284$. The remainder 16 is less than 22, so Mika's answer is correct.
- Choice A is correct.** **(M.6.G.A.4)** The flour-to-sugar ratio is 3 : 9. Both numbers are divisible by 3, so the simplified ratio is 1 : 3.
- Choice A is correct.** **(6.G.A.2)** For the equation $y = 6x$: when $x = 1$, $y = 6(1) = 6$, so (1, 6) is on the line. Check other options: (2, 8) gives $8 \neq 12$; (3, 12) gives $12 \neq 18$; (4, 18) gives $18 \neq 24$. Only A satisfies the equation.
- Choice A is correct.** **(M.6.SP.B.4, 6.SP.B.4)** Divide: $500 \div 1000 = 0.5$ kg.
- Choice B is correct.** **(M.6.SP.B.5)** Unlikely events have probability between 0 and 0.5. Choice B (0.15) is in this range; the others are not.
- Choice B is correct.** **(M.6.NS.B.2)** An upward trend with scatter indicates a positive correlation (as one variable increases, the other tends to increase), but the scatter shows the relationship is not perfect—it's weak to moderate, not deterministic.
- Choice D is correct.** **(6.RP.A.3)** Follow the order in the question: strawberry first, then vanilla. That gives 9 : 6, and dividing both parts by 3 simplifies it to 3 : 2.
- Choice A is correct.** **(M.6.NS.C.7d)** From the double number line, 3 hours corresponds to 5 dollars. The rate is $5 \div 3 = \frac{5}{3}$ dollars per hour.
- Choice A is correct.** **(M.6.NS.B.3, 6.NS.B.3)** Small bag: $\$3.50 \div 5 = \$0.70/\text{lb}$. Large bag: $\$9.75 \div 15 = \$0.65/\text{lb}$. Savings: $\$0.70 - \$0.65 = \$0.05$ per pound.
- Choice B is correct.** **(M.6.SP.A.2)** The ratio is 3 : 4. When red is 12 (multiply by 4), blue is $4 \times 4 = 16$ oz.
- Choice C is correct.** **(M.6.NS.B.4, 6.NS.B.4)** 35% of $\$60 = 0.35 \times 60 = \21 . Sale price is $\$60 - \$21 = \$39$.
- Choice D is correct.** **(M.6.NS.C.5, 6.NS.C.5)** Unit rate: $1.50 \div 1 = 1.50$ dollars per pound. Verify: $3 \div 2 = 1.50$ and $4.50 \div 3 = 1.50$.
- Choice D is correct.** **(M.6.G.A.1, 6.G.A.1)** Rent to Food: $\$1200 : \$800 = 12 : 8 = 3 : 2$ (dividing both by 400).
- Choice C is correct.** **(M.6.SP.B.4)** The ratio of flour to sugar is $f/s = 2/3$, $4/6 = 2/3$, $6/9 = 2/3$, $8/12 = 2/3$. The ratio remains constant, so the relationship is proportional.
- The correct answer is 47.5.** **(M.6.NS.C.8, 6.NS.C.8)** Rectangle: base $9 - 1 = 8$, height $6 - 1 = 5$, area = 40 square units. Triangle: base $12 - 9 = 3$, height $6 - 1 = 5$, area = $\frac{1}{2} \times 3 \times 5 = 7.5$ square units. Total = $40 + 7.5 = 47.5$ square units.
- Choice C is correct.** **(M.6.EE.A.3)** Emergency and Car: $(22\% + 16\%) = 38\%$ of $\$5000 = 0.38 \times 5000 = \1900 .
- Choice A is correct.** **(M.6.EE.A.2b)** Divide: $5280 \text{ feet} \div 200 \text{ feet/inch} = 26.4$ inches.
- Choice D is correct.** **(M.6.EE.A.2c, 6.EE.A.2c)** $\frac{5}{12} \div \frac{5}{12} = \frac{5}{12} \times \frac{12}{5} = \frac{60}{60} = 1$. Any nonzero number divided by itself equals 1.
- Choice A is correct.** **(M.6.NS.C.6c, 6.NS.C.6c)** Peek for the biggest factor both sums share evenly: that's 6. Pull it out softly: $18 + 24 = 6 \cdot 3 + 6 \cdot 4 = 6(3 + 4)$ —the distributive property read backward.
- The correct answer is Rectangles and triangles are polygons.** **(M.6.EE.B.5)** A is correct: a rectangle with vertices (0, 0), (4, 0), (4, 3), (0, 3) is a polygon on the coordinate plane. B is correct: a triangle with vertices (1, 2), (5, 2), and (3, 6) is a polygon. C, D, and E are incorrect because circles, curves, and ellipses are not polygons—polygons must have only straight sides.
- Choice B is correct.** **(M.6.EE.B.8)** Absolute value $|-25| = 25$ represents the magnitude of the temperature change, not its direction.
- Choice C is correct.** **(6.RP.A.3)** $-\frac{1}{4} = -0.25$, not -0.4 . The other pairs are equivalent.
- Choice D is correct.** **(M.6.G.A.1)** The point in Quadrant III (lower left) has both negative coordinates. The point $(-3, -4)$ fits this description.
- The correct answer is (5, 6).** **(M.6.G.A.1)** If the image after reflecting over the x -axis is $(5, -6)$, then the original point was $(5, 6)$ (reflect back by negating the y -coordinate again).



Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen 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



**CONFIDENCE TODAY.
SUCCESS 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.



Deepen 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.



10 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS