

10

Pennsylvania PSSA

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



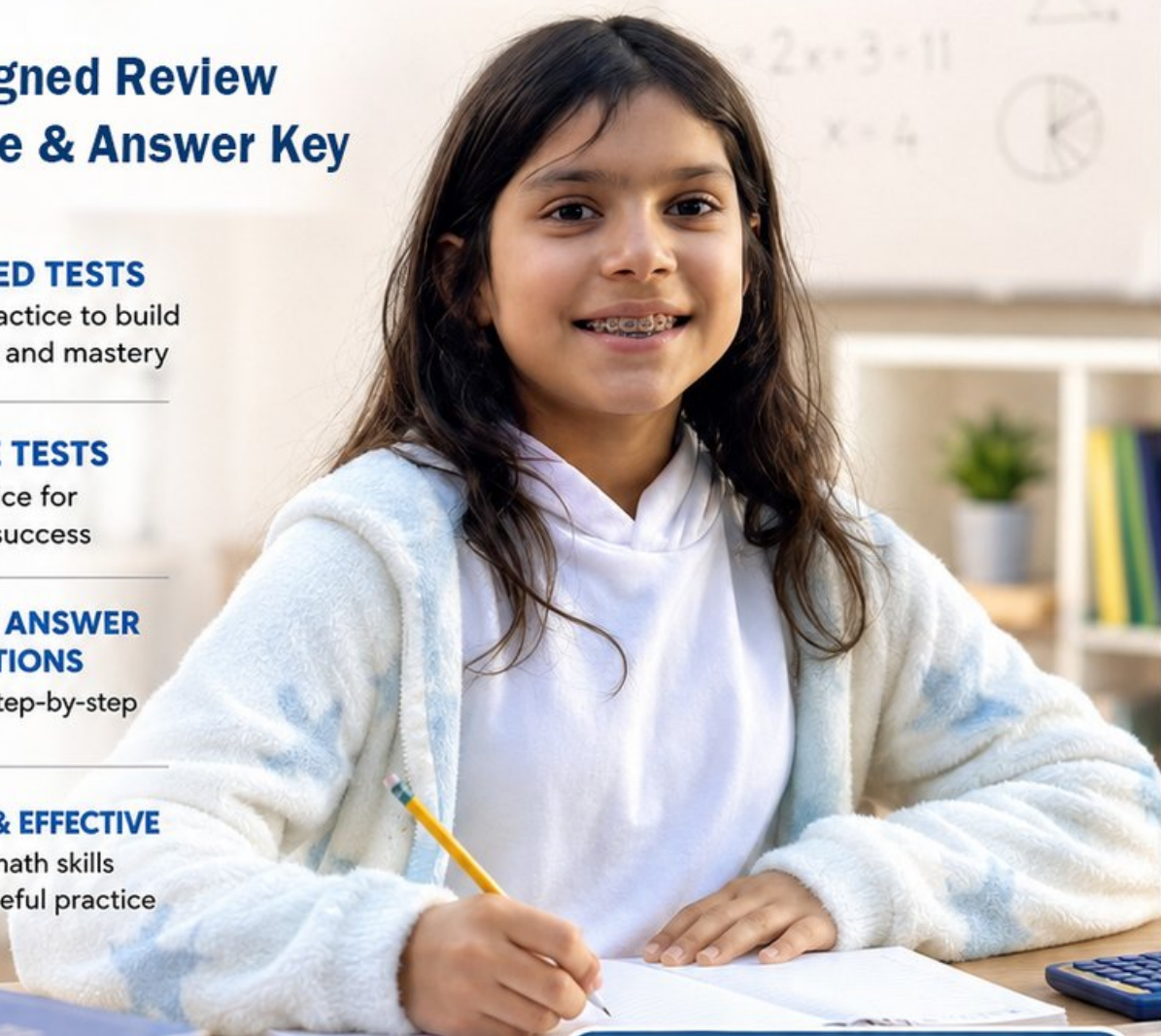
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



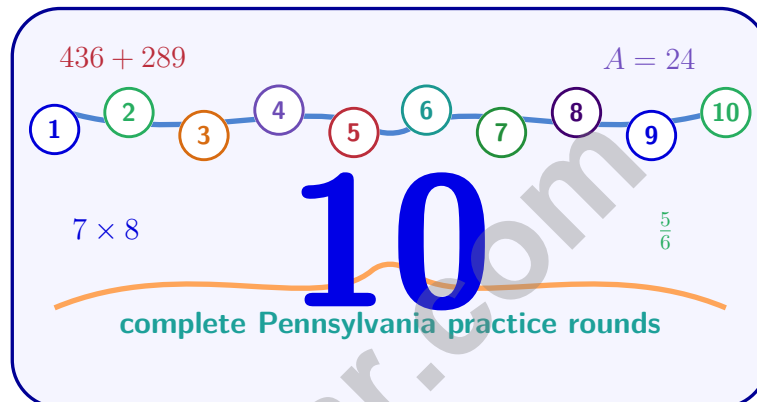
10 PRINTED TESTS
+ 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 Pennsylvania PSSA Grade 6 Math Practice Tests

Standards-Aligned Keystone Reasoning for Pennsylvania System of School Assessment



Ten complete 40-question Grade 6 practice rounds for PSSA, 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, Pennsylvania Math Explorer!

Ten steady rounds on a Keystone State review route

This book gives you ten full Grade 6 practice tests for PSSA. Each round uses historic roads, hills, and strong connecting ideas as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Pennsylvania Practice Promise

Find the key fact that holds the solution together. 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 keystone 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.

Pennsylvania 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 PSSA 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 Pennsylvania round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

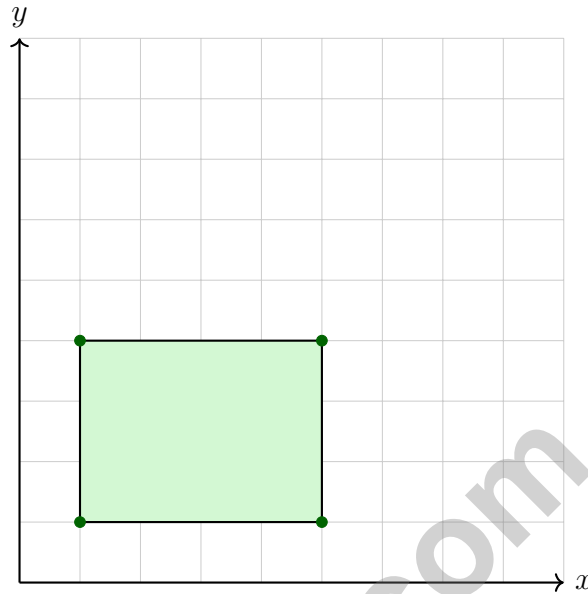
The tests are mixed on purpose. Keystone reasoning means recognizing the skill even when the next question changes topic.



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For more practice
& answers

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1)

What is the perimeter of the rectangle shown above?

- A. 9 units
- B. 12 units
- C. 14 units
- D. 16 units

2) If the area of a circle is approximately 314 square meters and $\pi \approx 3.14$, find the radius.



3) 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

4) What is $\frac{4}{5} \div \frac{2}{3}$?

A. $\frac{8}{15}$

B. $\frac{2}{15}$

C. $\frac{10}{12}$

D. $\frac{6}{5}$

5) Find the Mean Absolute Deviation for: 6, 8, 10, 12, 14.

6) Which phrase shows a price rate?

A. Ten students in a class

B. Seventy cents per pound

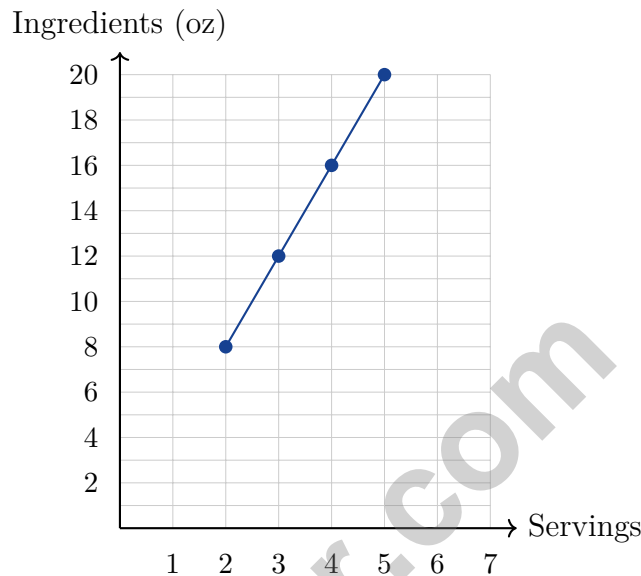
C. Four players on a team

D. Six wheels on a car



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- 7) A graph shows the relationship between recipe servings and total ingredients. The line contains the points (2, 8), (3, 12), (4, 16), and (5, 20). What is the amount of ingredients per serving?



- A. 2 oz per serving C. 6 oz per serving
 B. 8 oz per serving D. 4 oz per serving
- 8) A test score improves from 70 to 84. What is the percent increase?
- A. 15% C. 25%
 B. 18% D. 20%
- 9) A store inventory has 900 items. The circle graph shows $\frac{2}{9}$ are on clearance. How many items are on clearance?
- A. 180 C. 220
 B. 200 D. 240



1) A parallelogram has a base of 20 cm and an area of 140 cm^2 . What is its height?

- A. 5 cm C. 9 cm
 B. 7 cm D. 14 cm

2) A temperature must be at most 32°F to freeze. Which inequality represents this?

- A. $T > 32$ C. $T < 32$
 B. $T \geq 32$ D. $T \leq 32$

3) The table shows the cost of parking at a garage.

Hours Parked	1	2	3	4
Cost (\$)	5	10	15	20

Which statement is correct?

- A. Hours parked is the dependent variable C. The rate is \$5 per hour
 B. Cost is the independent variable D. The equation is $h = 5c$

4) A triangle has vertices at $(2, 1)$, $(8, 1)$, and $(5, 5)$. What is the length of the base?

- A. 4 units C. 8 units
 B. 6 units D. 10 units

5) A student mistakenly uses the formula $A = \pi d^2$ instead of $A = \pi r^2$ for a circle with radius 3 inches and $\pi \approx 3.14$. What incorrect area would they calculate?

- A. 113.04 in^2 C. 56.52 in^2
 B. 28.26 in^2 D. 9.42 in^2



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- 6) Apples cost \$2 per pound plus a \$3 fee. What is the total cost for 4 pounds?

- 7) A researcher asks sixth graders: “How many hours do you sleep per night?”

The table shows some responses:

Student	A	B	C	D	E
Hours of Sleep	8	9.5	7	8.5	9

What does the variability in these responses tell us about the question?

- A. The question has no correct answer. C. All students should sleep the same amount.
 B. The question is statistical because answers vary. D. The question is not statistical.
- 8) A data set has two distinct peaks in its dot plot. What type of distribution is this?
- A. Skewed right C. Symmetric
 B. Bimodal D. Uniform
- 9) A basketball player's points over 7 games: 12, 18, 15, 20, 14, 16, 19. What is the median?
- A. 14 C. 16
 B. 15 D. 17



1) A team's record started at 0 wins above .500. They won 3 games and lost 5 games. What is their record above or below .500?

- A. 8 wins above C. -2 wins (below)
 B. 2 wins above D. -8 wins (below)

2) A bus travels at an average speed of 45 miles per hour for 3 hours. How far does it travel?

- A. 120 miles C. 150 miles
 B. 135 miles D. 165 miles

3) If 15 out of 50 marbles are red, what percent are red?

4) A bottle of medicine contains 30 milliliters. A patient takes 5 mL daily. After 4 days, how many liters remain in the bottle?

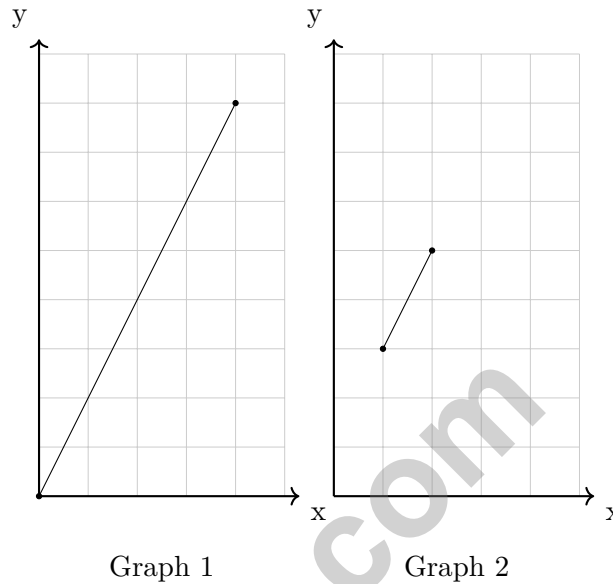
- A. 1 liter C. 2 liters
 B. 0.02 liters D. 0.01 liters

5) A clothing store offers layered discounts: first take 20% off, then take an additional 10% off the already-reduced price. If an item originally costs \$100, what is the final price?

- A. \$70 C. \$80
 B. \$90 D. \$72



- 6) Two graphs show relationships between input and output. Graph 1 passes through $(0, 0)$ and $(4, 8)$. Graph 2 passes through $(1, 3)$ and $(2, 5)$. Which statement is true?



- A. Both graphs show proportional relationships
 B. Neither graph shows a proportional relationship
 C. Only Graph 2 shows a proportional relationship
 D. Only Graph 1 shows a proportional relationship
- 7) Divide 7,280 by 35 and express as a mixed number or quotient with remainder.
- A. 208
 B. 208 R 4
 C. 206 R 10
 D. 210



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Pennsylvania PSSA 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

- 1) **Choice C is correct.** **(CC.2.1.6.D.1)** Width = $5 - 1 = 4$ units; height = $4 - 1 = 3$ units. Perimeter = $2(4 + 3) = 14$ units.
- 2) **The correct answer is 10 meters.** **(CC.2.1.6.E.1)** From $A = \pi r^2$, we get $314 \approx 3.14 \times r^2$, so $r^2 \approx 100$, thus $r = 10$ meters.
- 3) **Choice D is correct.** **(CC.2.1.6.E.2)** 2 years = 24 months. Total savings: $\$200 \times 24 = \4800 .
- 4) **Choice D is correct.** **(CC.2.1.6.E.2)** $\frac{4}{5} \times \frac{3}{2} = \frac{12}{10} = \frac{6}{5}$.
- 5) **The correct answer is 2.4.** **(CC.2.1.6.E.1)** Mean = $(6 + 8 + 10 + 12 + 14) / 5 = 10$. Deviations: $|6 - 10| = 4$, $|8 - 10| = 2$, $|10 - 10| = 0$, $|12 - 10| = 2$, $|14 - 10| = 4$. MAD = $(4 + 2 + 0 + 2 + 4) / 5 = 2.4$.
- 6) **Choice B is correct.** **(CC.2.1.6.E.4)** A price rate compares money to another unit. “Seventy cents per pound” compares cost to weight, so it is the price rate.
- 7) **Choice D is correct.** **(CC.2.2.6.B.3)** The unit rate is $8 \div 2 = 4$ oz per serving. Verify: $12 \div 3 = 4$ oz per serving ✓; $16 \div 4 = 4$ oz per serving ✓.
- 8) **Choice D is correct.** **(CC.2.2.6.B.2)** Increase is $84 - 70 = 14$. Percent increase is $\frac{14}{70} = 0.20 = 20\%$.
- 9) **Choice B is correct.** **(CC.2.3.6.A.1)** $\frac{2}{9} = \frac{200}{900}$. So $\frac{2}{9} \times 900 = 1800 \div 9 = 200$ items.
- 10) **Choice D is correct.** **(CC.2.1.6.E.2)** Read the words carefully: “boys to girls” means the boys number comes first. There are 8 boys and 10 girls, so the ratio is 8 to 10.
- 11) **Choice D is correct.** **(CC.2.3.6.A.1)** Recipe A has 4 : 2, which simplifies to 2 : 1. Recipe B has 6 : 3, which also simplifies to 2 : 1, so the recipes have the same oil-to-vinegar ratio.
- 12) **Choice C is correct.** **(CC.2.1.6.E.2)** Team A: $\$45.00 \div 30 = \$1.50/\text{bottle}$. Team B: $\$35.00 \div 25 = \$1.40/\text{bottle}$. Team B has the lower unit price.
- 13) **The correct answer is 15.** **(CC.2.1.6.E.3)** Mean = $\frac{12 + 15 + 18 + 10 + 20}{5} = \frac{75}{5} = 15$.
- 14) **Choice C is correct.** **(CC.2.1.6.E.1)** The ratio is 5 : 50 or 1 : 10. For 15 miles: $15 \times 10 = 150$ minutes.
- 15) **Choice C is correct.** **(CC.2.2.6.B.2)** $\frac{15}{50} = \frac{30}{100} = 30\%$ (multiply numerator and denominator by 2).
- 16) **Choice A is correct.** **(CC.2.3.6.A.1)** Ratio 5 : 3 with width 12 means each part is $12 \div 3 = 4$ feet. Length is $5 \times 4 = 20$ feet.
- 17) **Choice C is correct.** **(CC.2.2.6.B.2)** Multiply: $1.2 \times 1000 = 1200$ grams.
- 18) **The correct answer is Choices A and E correctly apply transformations.** **(CC.2.1.6.E.3)** Choice A: $(2, 3) \rightarrow (2 + 1, 3 - 2) = (3, 1)$, which matches. Choice B is wrong because reflecting over the y -axis gives $(-2, 3)$, not $(2, -3)$. Choice C: $(2, 3) \rightarrow (2 - 3, 3 + 1) = (-1, 4)$, not $(5, 4)$. Choice D: Reflection over the x -axis gives $(2, -3)$, not $(2, 3)$. Choice E: $(2, 3) \rightarrow (2 - 2, 3) = (0, 3)$, which matches.
- 19) **Choice C is correct.** **(CC.2.1.6.E.2)** Tip: 15% of $\$32 = 0.15 \times 32 = \4.80 .
- 20) **Choice C is correct.** **(CC.2.4.6.B.1)** The constant speed is $\frac{45 \text{ miles}}{3 \text{ hours}} = 15 \text{ mph}$. In 5 hours: distance = $15 \times 5 = 75$ miles.
- 21) **Choice A is correct.** **(CC.2.1.6.E.3)** If 2 cm on the map represents 15 km, then 1 cm represents $15 \div 2 = 7.5$ km.
- 22) **Choice A is correct.** **(CC.2.2.6.B.3)** $8,925 \div 35 = 255$ exactly. Verify: $35 \times 255 = 8,925$.
- 23) **Choice A is correct.** **(CC.2.1.6.D.1)** Roughly, $8 \times 4 = 32$ since 7.9 is near 8 and 4.2 is near 4. That ballpark is what estimation is for—save the exact digits for when you need them.
- 24) **Choice B is correct.** **(CC.2.1.6.D.1)** This is a GCF problem. Since $52 = 2 \times 26$ and $78 = 3 \times 26$, the greatest common factor is 26. They can make 26 shelves with 2 fiction books and 3 non-fiction books on each shelf.
- 25) **Choice B is correct.** **(CC.2.1.6.D.1)** GCF of 14 and 21 is 7. So $14 + 21 = 7(2 + 3)$. Only Choice B uses the GCF with whole numbers.
- 26) **Choice B is correct.** **(CC.2.2.6.B.2)** A negative elevation means below sea level. An elevation of -340 meters means 340 meters below sea level.
- 27) **Choice A is correct.** **(CC.2.2.6.B.3)** On the number line, $-\frac{1}{2}$ is to the right of -1 , so it is greater. Check: $-0.5 > -1$ is true.



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