

6

GEORGIA

Milestones

GRADE

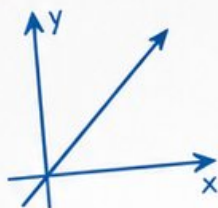
7

MATH

PRACTICE TESTS

Standards Aligned
Problem Solving For
Comprehensive
Assessment Programs

$$y = mx + b$$



$$2(x - 3) = 4x + 6$$



6 PRINTED TESTS



2 ONLINE TESTS



USE THESE TWO
**ADDITIONAL ONLINE
PRACTICE TESTS**
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



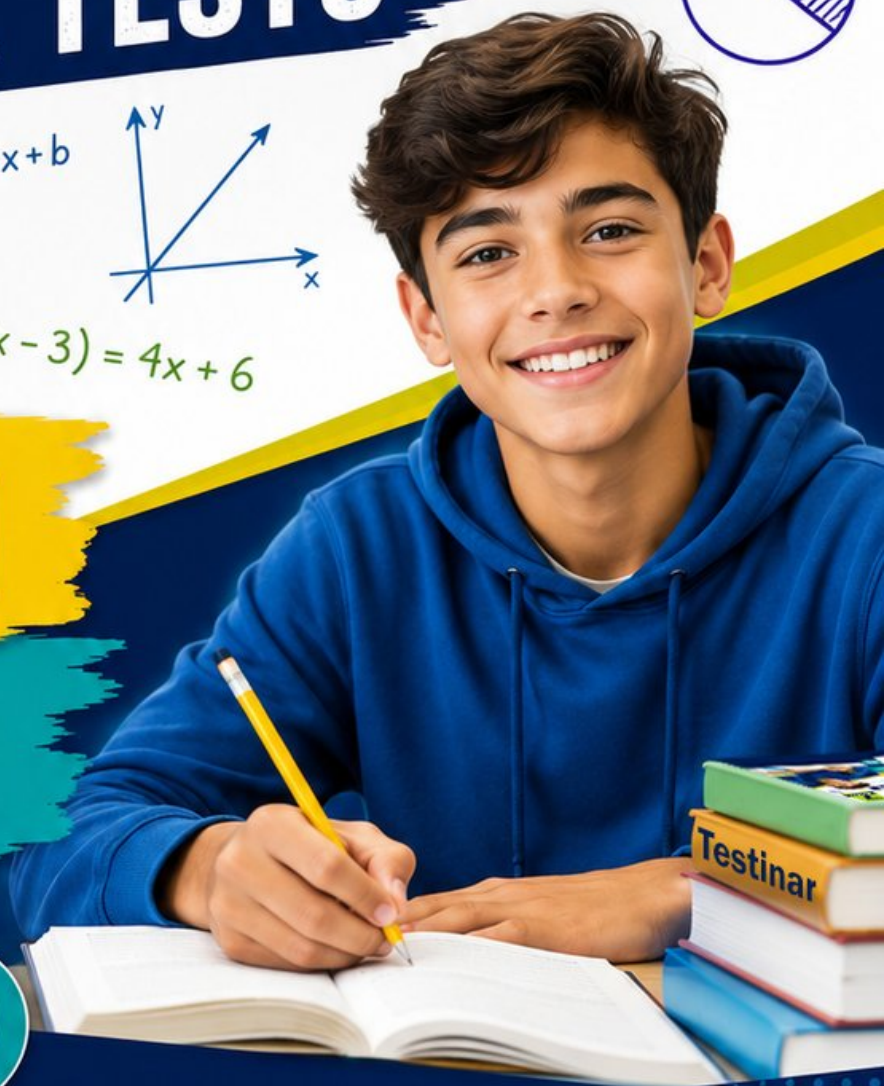
Strengthen
Math Skills



Detailed Answers
& Explanations



Improve Test
Performance



6 Georgia Milestones Grade 7 Math Practice Tests

Milestones-Aligned Practice with Keys and Explanations



Six complete 40-question Grade 7 Milestones practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Georgia Grade 7 Problem Solver!

Six focused rounds for sharper Milestones math thinking

This book gives you six full Grade 7 Milestones math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Georgia Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

A six-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Georgia review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Six Milestones tests, 240 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



Scan me!
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& answers

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1) What is $4 - 10$?

☐ A. 6

☐ C. 14

☐ B. -14

☐ D. -6

2) Which table shows a proportional relationship between x and y ?

Option A:

x	1	2	3	4
y	4	8	12	16

Option B:

x	1	2	3	4
y	2	5	7	10

☐ A. Neither

☐ C. Both A and B

☐ B. Option B only

☐ D. Option A only

3) Solve: $\frac{1}{2}x + 5 = 9$

☐ A. $x = 4$

☐ C. $x = 8$

☐ B. $x = 6$

☐ D. $x = 10$

4) A simulation of rolling two dice (using two spinners, each with 6 equal sections) is performed 200 times. The event "getting a sum of at least 10" is tracked. The successful outcomes are $(4, 6)$, $(5, 5)$, $(5, 6)$, $(6, 4)$, $(6, 5)$, $(6, 6)$ — that is, 6 outcomes out of 36. If the simulation results show 35 successes in 200 trials, what is the estimated probability of rolling a sum of at least 10?

☐ A. 0.12

☐ C. 0.31

☐ B. 0.17

☐ D. 0.35



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- 5) A hotel posts a survey in guest rooms asking: "Didn't you love your stay with us?" Which is the PRIMARY bias in the survey question itself?
- ☐ A. The question uses leading language suggesting a desired answer
- ☐ B. The sample size is too small
- ☐ C. The survey is only given to guests
- ☐ D. The question is too vague
- 6) Two datasets: Dataset 1: 10, 15, 20, 25, 30 Dataset 2: 15, 18, 20, 22, 25 Both have a median of 20. Which has lower variability?
- ☐ A. Dataset 1 (larger range)
- ☐ B. Dataset 2 (more compact)
- ☐ C. Both have equal variability
- ☐ D. Cannot compare with medians
- 7) A pictograph uses one star symbol to represent 50 students. If there are 12 stars shown for 7th grade, how many seventh-grade students are there?
- ☐ A. 12 students
- ☐ B. 50 students
- ☐ C. 62 students
- ☐ D. 600 students
- 8) A bag has 8 balls: 3 yellow and 5 orange. What is the probability of drawing a yellow ball on a single draw?
- ☐ A. $\frac{3}{8}$
- ☐ B. $\frac{5}{8}$
- ☐ C. $\frac{3}{5}$
- ☐ D. $\frac{2}{7}$
- 9) When a standard die is rolled and a spinner with sections W, X, Y, Z is spun, how many favorable outcomes result in rolling a number less than 4 and landing on a consonant?
- ☐ A. 3
- ☐ B. 6
- ☐ C. 9
- ☐ D. 12



- 10) A factory tests light bulbs for quality. Out of 1000 bulbs tested, 980 passed inspection. Based on this experimental data, how many bulbs out of 5000 would be expected to pass?

☐ A. 980 ☐ C. 4800
☐ B. 3900 ☐ D. 4900

- 11) A number cube is rolled and a coin is flipped. What is $P(\text{rolling a 4 and flipping tails})$?

☐ A. $\frac{1}{12}$ ☐ C. $\frac{1}{6}$
☐ B. $\frac{1}{8}$ ☐ D. $\frac{7}{12}$

- 12) A photograph is enlarged from 4 inches wide by 6 inches tall to 10 inches wide. How tall is the enlarged photograph?

- 13) Three-digit data in a stem-and-leaf plot with stem 14 and leaves 2, 5, 8 represents which values?

☐ A. 142, 145, 148 ☐ C. 14.2, 14.5, 14.8
☐ B. 1402, 1405, 1408 ☐ D. 214, 514, 814

- 14) A game has a $\frac{1}{3}$ chance of winning and a $\frac{2}{3}$ chance of losing. What is the probability of winning as a decimal (rounded to the nearest hundredth)?

☐ A. 0.33 ☐ C. 0.5
☐ B. 0.67 ☐ D. 0.2



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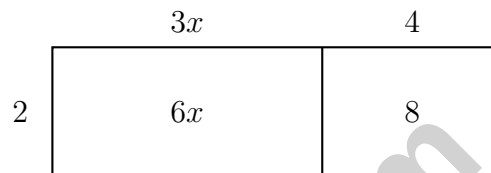
- 1) A dot plot shows the number of goals scored by soccer players: 2 (two players), 3 (three players), 4 (four players), 5 (two players), 6 (one player). What is the mean number of goals?
- ☐ A. 3.5 goals ☐ C. 4 goals
☐ B. 3.8 goals ☐ D. 5.5 goals
- 2) Which point lies on the line of reflection $y = x$?
- ☐ A. $(-4, 4)$ ☐ C. $(3, 3)$
☐ B. $(2, -2)$ ☐ D. $(5, -5)$
- 3) A shirt is on sale for \$18 after a 20% discount. What was the original price?
- ☐ A. \$14.40 ☐ C. \$22.50
☐ B. \$21.60 ☐ D. \$25
- 4) A coin is flipped and a die showing 1, 2, or 3 is rolled. How many favorable outcomes involve Tails and a number less than 3?
- ☐ A. 1 ☐ C. 3
☐ B. 2 ☐ D. 4
- 5) A pair of fair dice is rolled once. What is the probability of rolling a sum of 7 OR a sum of 11?
- ☐ A. $\frac{6}{36}$ ☐ C. $\frac{2}{36}$
☐ B. $\frac{8}{36}$ ☐ D. $\frac{14}{36}$



- 6) Two students estimate the same measurement. Student A estimates 42 when the actual value is 50. Student B estimates 48 when the actual is 50. Which student's estimate has the smaller percent error?

- ☐ A. Student A ☐ C. Both have the same error
☐ B. Cannot be determined ☐ D. Student B

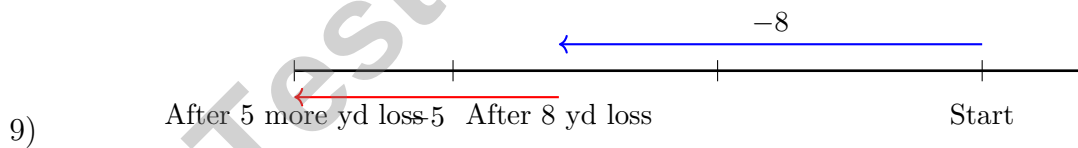
- 7) Which expression is equivalent to $2(3x + 4)$? The diagram shows the split:



- ☐ A. $6x + 4$ ☐ C. $5x + 6$
☐ B. $6x + 8$ ☐ D. $3x + 8$

- 8) At what annual simple interest rate will \$2000 grow to \$2400 in 4 years?

- ☐ A. 2% ☐ C. 7%
☐ B. 10% ☐ D. 5%



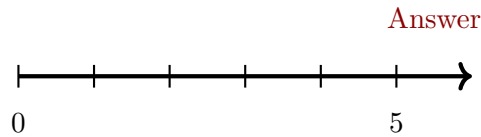
A football team loses 8 yards on one play and then loses 5 more yards on the next play. Using subtraction with negative numbers, which expression represents the total change in position?

- ☐ A. $0 - 8 - 5$ ☐ C. $0 - 8 + 5$
☐ B. $8 + 5$ ☐ D. $0 + 8 - 5$



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& answers

- 1) Number-line model: Where does $\frac{5}{6} \div \frac{1}{6}$ map on the number line?



- ☐ A. 0
 ☐ C. At 5
☐ B. Between 0 and 1
 ☐ D. Beyond 5
- 2) A scale drawing shows a rectangular garden with dimensions 6 cm $\times$ 4 cm. The scale is 1 cm : 2 m. What is the area of the actual garden?
- ☐ A. 48 m²
☐ C. 192 m²
☐ B. 96 m²
☐ D. 384 m²
- 3) A rectangular window frame is drawn 3.2 inches by 4.8 inches at a scale of 1 in : 2.5 ft. If the scale is changed to 1 in : 5 ft, what will be the new width?
- ☐ A. 1.6 in
 ☐ C. 3.2 in
☐ B. 2.4 in
 ☐ D. 6.4 in
- 4) A box contains cards numbered 5 through 14. A card is drawn at random. What is the probability of drawing a card with a number divisible by 3?
- ☐ A. $\frac{1}{5}$
☐ C. $\frac{2}{5}$
☐ B. $\frac{3}{10}$
☐ D. $\frac{1}{3}$
- 5) A clothing store sells shirts in 3 fits (Slim, Regular, Loose) and 5 sizes (XS, S, M, L, XL). If a customer randomly picks one fit and one size, what is the probability of selecting Regular and Large?
- ☐ A. $\frac{1}{5}$
☐ C. $\frac{1}{8}$
☐ B. $\frac{1}{15}$
☐ D. $\frac{2}{15}$



6) A square tile has an area of 169 square inches. What is the side length of the tile?

☐ A. 11 inches

☐ C. 13 inches

☐ B. 12 inches

☐ D. 14 inches

7) A dot plot shows the number of cookies sold daily by two bakeries. Bakery A: 15, 16, 16, 17, 17, 17, 17, 18, 19 cookies; Bakery B: 10, 12, 18, 20, 22, 25 cookies. Which bakery has more stable sales?

☐ A. Bakery A (most values cluster at 16–17)

☐ C. Both bakeries have identical sales patterns

☐ B. Bakery B (sold more cookies overall)

☐ D. Bakery B (wider range shows more opportunity)

8) Two triangles both have side lengths 5, 5, and 7. How many corresponding side lengths match?



9) A spinner was spun 200 times with four equal sections labeled A, B, C, and D. Section A appeared 58 times. Which best describes the relationship between the experimental and theoretical probabilities for landing on A?

☐ A. Both are exactly 0.25.

☐ C. Experimental is 0.25; theoretical is 0.29.

☐ B. Experimental is 0.58; theoretical is 0.20.

☐ D. Experimental is 0.29; theoretical is 0.25.



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& answers

Georgia Milestones Grade 7 Practice Test Answer Keys**How to use this section with a Grade 7 student:**

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Georgia Milestones practice test.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (7.NS.1-7.NS.3) $4 - 10 = 4 + (-10) = -6$.
- 2) **Choice D is correct.** (7.RP.1-7.RP.3) Check constant y/x : A gives 4, 4, 4, 4 (constant — proportional). B gives 2, 2.5, 2.33, 2.5 (not constant).
- 3) **Choice C is correct.** (7.EE.3-7.EE.4) Subtract 5: $\frac{1}{2}x = 4$. Multiply by 2: $x = 8$.
- 4) **Choice B is correct.** (7.SP.5-7.SP.8) Relative frequency: $\frac{35}{200} = 0.175 \approx 0.17$. (Note: theoretical probability is $\frac{6}{36} = \frac{1}{6} \approx 0.167$, so the simulation is very close.)
- 5) **Choice A is correct.** (7.SP.1-7.SP.4) The phrase “Didn’t you love” is leading language that biases respondents toward agreeing. This loaded wording introduces response bias in the survey question itself.
- 6) **Choice B is correct.** (7.SP.1-7.SP.4) Dataset 1 ranges 10–30 (range = 20). Dataset 2 ranges 15–25 (range = 10). Dataset 2 has lower variability and is more compact around the median.
- 7) **Choice D is correct.** (7.SP.1-7.SP.4) 12 stars $\times$ 50 students/star = 600 students.
- 8) **Choice A is correct.** (7.SP.5-7.SP.8) Yellow balls: 3 out of 8 total. $P(\text{yellow}) = \frac{3}{8}$.
- 9) **Choice C is correct.** (7.SP.5-7.SP.8) Numbers less than 4: $\{1, 2, 3\} = 3$ outcomes. Consonants: $\{W, X, Y, Z\} = 4$ outcomes. Favorable: $3 \times 4 = 9$ outcomes.
- 10) **Choice D is correct.** (7.SP.6) Experimental probability of passing = $\frac{980}{1000} = 0.98$. We use this rate to predict outcomes in a larger sample: $0.98 \times 5000 = 4900$ expected passing bulbs.
- 11) **Choice A is correct.** (7.SP.5-7.SP.8) $P(4 \text{ and tails}) = \frac{1}{6} \cdot \frac{1}{2} = \frac{1}{12}$.
- 12) **The correct answer is 15.** (7.G.1-7.G.5) Scale factor = $\frac{10}{4} = 2.5$. New height = $6 \times 2.5 = 15$ inches.
- 13) **Choice A is correct.** (7.SP.1-7.SP.4) With a two-digit stem (14), leaves are the ones place: 142, 145, 148.
- 14) **Choice A is correct.** (7.SP.5-7.SP.8) $\frac{1}{3} = 0.\overline{3} \approx 0.33$ when rounded to the nearest hundredth.
- 15) **Choice B is correct.** (7.SP.1-7.SP.4) $\frac{45}{120} = \frac{x}{840}$. Reduce to $\frac{3}{8} = \frac{x}{840} \Rightarrow x = 315$.
- 16) **Choice D is correct.** (7.RP.3) Percent error = $\frac{|1.2 - 1.5|}{1.5} \times 100\% = \frac{0.3}{1.5} \times 100\% = 20\%$.
- 17) **The correct answer is 16 m.** (7.G.4-7.G.6) $C = \pi d \Rightarrow 50.24 = 3.14d \Rightarrow d = 50.24 \div 3.14 = 16$ m.
- 18) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute -2 : $-2(3c) - 2(7) = -6c - 14$.
- 19) **The correct answer is A,B.** (7.G.1-7.G.5) Correct answers: (A) $(1, 0) \rightarrow (1 + 2, 0 + 3) = (3, 3) \rightarrow (-3, 3)$. (B) $(0, 0) \rightarrow (2, 3) \rightarrow (-2, 3)$. Both steps verified. Distractors: (C) True but not a unique property of this transformation (all rigid transformations preserve congruence). (D) False—rigid transformations do not change size.
- 20) **Choice D is correct.** (7.RP.3) $200 = P \times 0.08 \times 5 \Rightarrow 200 = 0.4P \Rightarrow P = \500 .
- 21) **Choice D is correct.** (7.RP.1-7.RP.3) Multiply map distance by scale: $4.5 \times 25 = 112.5$ miles.
- 22) **Choice D is correct.** (7.RP.3) Markup = $0.40 \times 35 = \$14$. Selling price = $35 + 14 = \$49$.
- 23) **Choice B is correct.** (7.EE.1) By commutativity, $ab = ba$, so $6ab$ and $3ba$ are like terms. Combined: $6ab + 3ba = 6ab + 3ab = 9ab$.
- 24) **Choice A is correct.** (7.SP.1-7.SP.4) $108^\circ \div 360^\circ \times 100 = 30\%$.
- 25) **Choice D is correct.** (7.RP.3) $33\frac{1}{3}\% = \frac{1}{3}$; $\frac{1}{3} \times 120 = 40$.
- 26) **The correct answer is 153.86.** (7.G.4-7.G.6) $A = 3.14 \times 7^2 = 3.14 \times 49 = 153.86 \text{ cm}^2$.
- 27) **Choice C is correct.** (7.NS.1b) Starting at floor -2 and moving up 9 floors: $-2 + 9 = 7$. The elevator reaches floor 7.
- 28) **Choice A is correct.** (7.EE.1-7.EE.2) GCF of 20 and 24 is 4. Factor: $20y + 24 = 4(5y + 6)$. Choice B is not completely factored.
- 29) **Choice D is correct.** (7.RP.3) Multiply by 100: $0.08 \times 100 = 8\%$. Equivalently, $0.08 = \frac{8}{100} = 8\%$.
- 30) **Choice B is correct.** (7.NS.1-7.NS.3) Moving the decimal 4 places right: $0.000789 \rightarrow 7.89$. Correct answer is 7.89×10^{-4} , not -3 .
- 31) **The correct answer is 10.67.** (7.G.4-7.G.6) $V = \pi r^2 h \Rightarrow 301.44 = 3.14 \times 9 \times h \Rightarrow 301.44 = 28.26h \Rightarrow h \approx 10.67$ inches.



Hi, Persistent Problem Solver!

◇ Some Grade 7 questions ask you to hold several ideas in your mind at once. That can feel hard, and that is exactly why practice matters. ◇

★ **Remember this:** You showed persistence by continuing through the set. That habit is powerful because difficult problems often open after one more good attempt. You practiced across 6 full Grade 7 practice tests, and that repeated effort matters. ★

Persistence Tools

- **Try a Smaller Case:** Use an easier number to see the pattern.
- **Draw It:** Make the situation visible.
- **Restate It:** Say the question in your own words.
- **Check One Step:** Fix the first unclear place.

Grade 7 test-day tip: When stuck, do not restart everything. Find the first step you trust, then rebuild from there.

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

Jay Daie

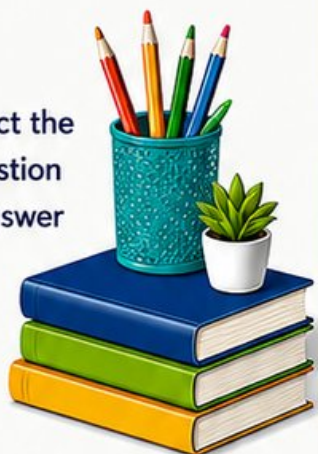
Your Persistence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **6** full-length Math practice tests and **2** online tests to help Grade 7 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:

6 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answers & 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



Build Confidence

Practice regularly to feel prepared and test-ready.



Strengthen Math Skills

Develop key math concepts and problem solving abilities.



Improve Understanding

Learn with clear explanations and step-by-step solutions.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Boost Performance

Apply your knowledge and achieve your best score!

TOPICS COVERED

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



2 ONLINE TESTS

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



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

Don't lose it—your extra practice and success start here!



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