

10

Kansas KAP

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



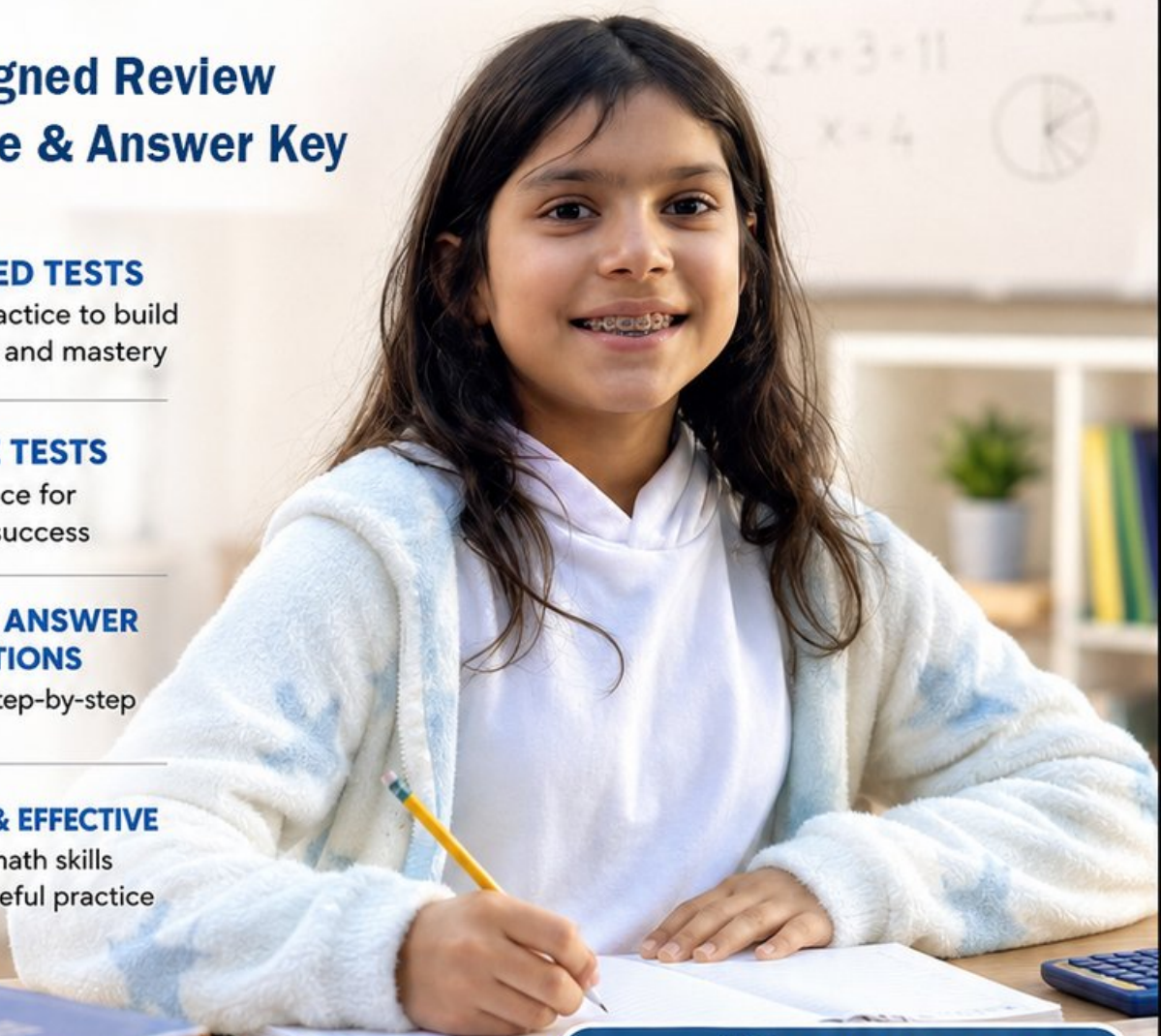
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



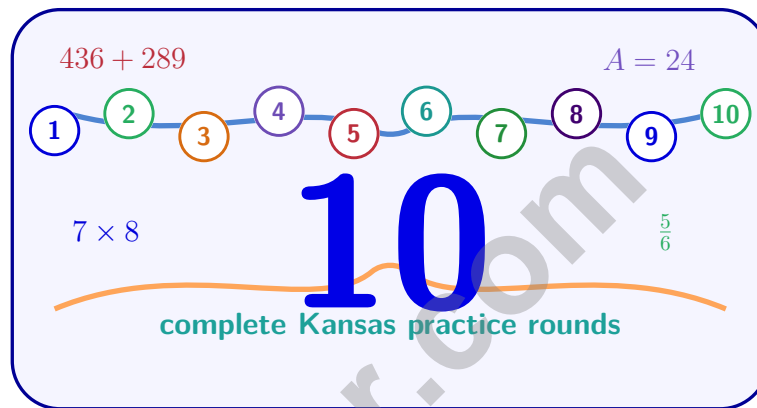
10 PRINTED TESTS
+ 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 Kansas KAP Grade 6 Math Practice Tests

Standards-Aligned Clear-Horizon Reasoning for Kansas Assessment Program



Ten complete 40-question Grade 6 practice rounds for KAP, 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, Kansas Math Explorer!

Ten steady rounds on a Sunflower State math crossing

This book gives you ten full Grade 6 practice tests for KAP. Each round uses wide horizons, wind-swept routes, and focused review as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Kansas Practice Promise

Keep your work lined up so the next step is easy to see. 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 clear-horizon 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.

Kansas 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 KAP 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 Kansas 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. Clear-horizon reasoning means recognizing the skill even when the next question changes topic.



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& answers

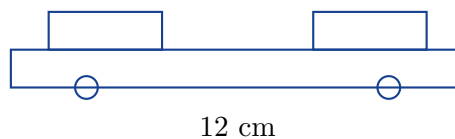
Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	30
★ Practice Test 3	_____	46
★ Practice Test 4	_____	62
★ Practice Test 5	_____	76
★ Practice Test 6	_____	92
★ Practice Test 7	_____	112
★ Practice Test 8	_____	127
★ Practice Test 9	_____	141
★ Practice Test 10	_____	157
Practice Test Answer Keys	_____	173
Practice Test Answers and Explanations	_____	179

- 1) A rectangular prism has length 5 cm, width 3 cm, and height 2 cm. What is its surface area using the formula $SA = 2LW + 2LH + 2WH$?
- A. 30 cm^2 C. 62 cm^2
 B. 52 cm^2 D. 124 cm^2
- 2) A table compares yards and meters with a constant ratio column. Which table represents a proportional relationship?

Yards (A)	1	2	3	$\frac{m}{y}$
Meters (A)	0.9	1.8	2.7	0.9
Yards (B)	1	2	3	$\frac{m}{y}$
Meters (B)	0.8	1.7	2.5	?

- A. Option A only C. Both are proportional
 B. Option B only D. Neither is proportional
- 3) A household plans to save \$200 per month for a vacation. How much will they save in 2 years?
- A. \$2400 C. \$4000
 B. \$3200 D. \$4800
- 4) A toy car model is 12 cm long. The scale of the model is 1 cm = 0.5 m. What is the length of the actual car?



- A. 4 m C. 8 m
 B. 5 m D. 6 m



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- 5) A gardener plants flowers in a ratio of roses to tulips of 4 : 5. If the gardener plants 16 roses, how many tulips are planted?

Roses	Tulips
4	5
8	10
16	?

- A. 18 C. 22
 B. 24 D. 20
- 6) A trapezoid has vertices at (1, 1), (9, 1), (8, 5), and (2, 5). What is the length of the bottom base?

- 7) Which step is correct when dividing $\frac{2}{5} \div \frac{3}{7}$?

- A. $\frac{2}{5} \times \frac{3}{7}$ C. $\frac{5}{2} \times \frac{3}{7}$
 B. $\frac{2}{5} \times \frac{7}{3}$ D. $\frac{2}{3} \times \frac{5}{7}$

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

- A. $\frac{1}{10}$ C. $\frac{4}{5}$
 B. $\frac{2}{5}$ D. $\frac{1}{20}$



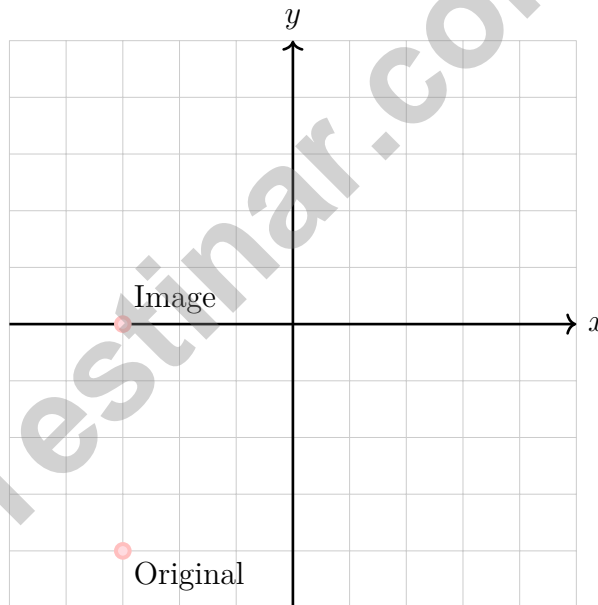
1) Rewrite the question to make it statistical:

Original: "How fast is my car?"

- | | |
|---|---|
| <input type="checkbox"/> A. What color is my car? | <input type="checkbox"/> C. How fast do different cars in the |
| <input type="checkbox"/> B. How many cars are in the parking lot? | parking lot go? |
| | <input type="checkbox"/> D. What brand is my car? |

2) Which inequality means "all numbers greater than or equal to -5 "?

- | | |
|--------------------------------------|---|
| <input type="checkbox"/> A. $x > -5$ | <input type="checkbox"/> C. $x \leq -5$ |
| <input type="checkbox"/> B. $x < -5$ | <input type="checkbox"/> D. $x \geq -5$ |

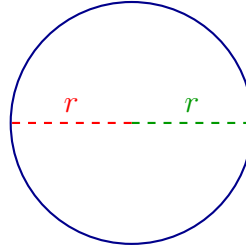


3)

A point is translated and moves from $(-3, -4)$ to $(-3, 0)$. What is the translation vector?

- | | |
|--|---|
| <input type="checkbox"/> A. 0 units horizontally, 4 units up | <input type="checkbox"/> C. 4 units right, 3 units up |
| <input type="checkbox"/> B. 3 units left, 0 units vertically | <input type="checkbox"/> D. 3 units right, 4 units down |





$$\text{Diameter} = 2r$$

4)

If a circle has a radius of 4 inches, what is the diameter?

- A. 2 inches C. 8 inches
 B. 4 inches D. 16 inches

5) In a right-skewed distribution, which statement is always true?

- A. Mean = Median = Mode C. Mean < Median < Mode
 B. Mode < Median < Mean D. Mode = Mean < Median

6) Data Set A: 5, 6, 7, 8, 9 (Mean = 7, Median = 7) Data Set B: 1, 5, 7, 8, 24 (Mean = 9, Median = 7) Which statement is true?

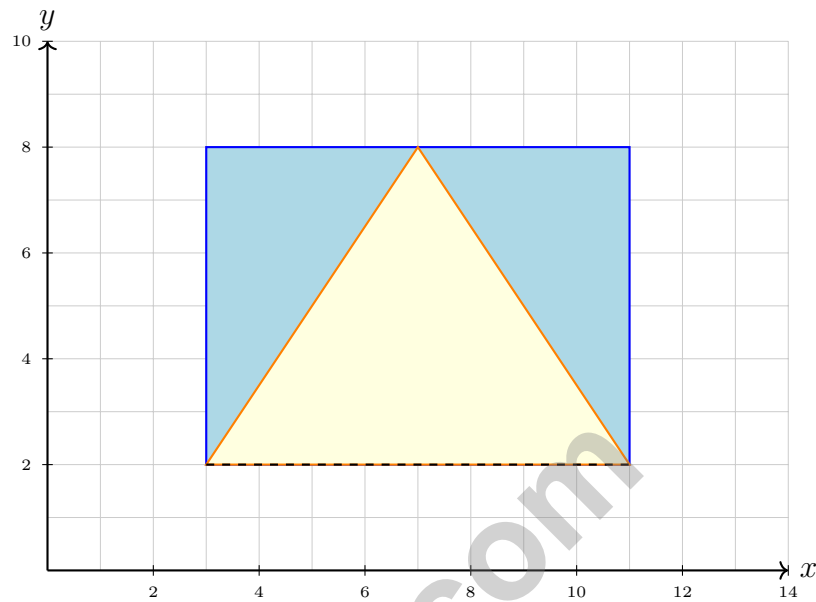
- A. Set A is more skewed C. The means are equal
 B. Set B has a larger outlier D. Set A has a larger outlier

7) A data set has minimum = 10, Q1 = 18, median = 24, Q3 = 30, and maximum = 45. One value is an outlier far above the rest. Which measure of spread is LEAST affected by this outlier?

- A. Range C. Mean absolute deviation
 B. Interquartile range D. Mean



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1)

A composite figure consists of a rectangle and a triangle. The rectangle has vertices at $(3, 2)$, $(11, 2)$, $(11, 8)$, and $(3, 8)$. The triangle sits on top with vertices at $(3, 8)$, $(11, 8)$, and $(7, 12)$ (height extends to 12). What is the total area? (Note: Triangle height is 4 units above the rectangle.)

- | | |
|---|---|
| <input type="checkbox"/> A. 48 square units | <input type="checkbox"/> C. 64 square units |
| <input type="checkbox"/> B. 52 square units | <input type="checkbox"/> D. 60 square units |

2) Write 0.005 as a percent.

- | | |
|----------------------------------|----------------------------------|
| <input type="checkbox"/> A. 0.5% | <input type="checkbox"/> C. 50% |
| <input type="checkbox"/> B. 5% | <input type="checkbox"/> D. 500% |



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3) Sarah scored 45 correct answers out of 60 questions on a math test. What percent of the questions did she answer correctly?

A. 55%

C. 75%

B. 65%

D. 85%

4) A blueprint shows a room at a scale of 1 cm = 2 meters. If the blueprint shows a room that is 8 cm wide, how many meters wide is the actual room?

A. 20 meters

C. 8 meters

B. 10 meters

D. 16 meters

5) A proportional relationship is shown on a graph. Two points on the line are (3, 21) and (7, 49). Find the constant of proportionality (the unit rate).



6) A model airplane is 24 inches long. How many feet long is the model? (Use 1 foot = 12 inches.)

A. 1 foot

C. 2 feet

B. 1.5 feet

D. 3 feet

7) Find the sum: $0.75 + 1.4 + 2.1$

A. 3.15

C. 4.35

B. 4.25

D. 4.15



Kansas KAP 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.** **(6.NS.8)** $SA = 2(5)(3) + 2(5)(2) + 2(3)(2) = 30 + 20 + 12 = 62 \text{ cm}^2$.
- 2) **Choice A is correct.** **(6.RP.3c)** Option A has a constant m/y ratio: $0.9/1 = 1.8/2 = 2.7/3 = 0.9$. Option B does not: $0.8/1 = 0.8$, $1.7/2 = 0.85$, and $2.5/3 \approx 0.83$.
- 3) **Choice D is correct.** **(6.SP.4)** 2 years = 24 months. Total savings: $\$200 \times 24 = \4800 .
- 4) **Choice D is correct.** **(6.EE.7)** Multiply: $12 \text{ cm} \times 0.5 \text{ m/cm} = 6 \text{ m}$.
- 5) **Choice D is correct.** **(6.RP.1)** The ratio is 4 : 5. When roses are 16 (multiply by 4), tulips are $5 \times 4 = 20$.
- 6) **The correct answer is 8.** **(6.SP.5)** The bottom base goes from (1, 1) to (9, 1). Length = $9 - 1 = 8$ units.
- 7) **Choice B is correct.** **(6.NS.5)** The first fraction stays the same; flip (invert) the second fraction and change divide to multiply.
- 8) **Choice C is correct.** **(6.EE.3)** A “very likely” event has probability close to 1. Choice C ($\frac{4}{5} = 0.8 = 80\%$) best represents this. The others are all unlikely.
- 9) **Choice A is correct.** **(6.G.2)** 25% of 180 is $0.25 \times 180 = 45$ customers.
- 10) **Choice D is correct.** **(6.G.1)** The whole class is split into $5 + 3 = 8$ equal ratio parts. Each part is $24 \div 8 = 3$ students, and the boys are 5 parts: $5 \times 3 = 15$.
- 11) **Choice A is correct.** **(6.G.4)** The table shows apples to oranges as 6 : 9. Divide both parts by 3 to get the equivalent simplified ratio 2 : 3.
- 12) **Choice B is correct.** **(6.RP.3)** Divide apples by bags: $14 \div 2 = 7$ apples per bag.
- 13) **Choice B is correct.** **(6.NS.3)** Unit rate: $\$12 \div 3 = \4 per latte. For 7 lattes: $7 \times \$4 = \28 .
- 14) **Choice A is correct.** **(6.EE.8)** The vertical axis is scaled in groups of 50 miles. So 50 miles is shown as 1, 100 miles as 2, and 150 miles as 3, giving the points (1, 1), (2, 2), and (3, 3).
- 15) **Choice B is correct.** **(6.EE.1)** $37.5\% = \frac{37.5}{100} = 0.375$.
- 16) **Choice A is correct.** **(6.EE.2c)** 60% of $\$35 = 0.60 \times 35 = \21 . Clearance price is $\$35 - \$21 = \$14$.
- 17) **Choice C is correct.** **(6.EE.5)** Ratio 1 : 3 with 2 cups sugar: multiply by 2, so flour is $3 \times 2 = 6$ cups.
- 18) **Choice B is correct.** **(6.EE.4)** Multiply: $1.5 \times 5280 = 7920$ feet.
- 19) **The correct answer is 20.** **(6.EE.7)** Total sum = $25 \times 4 = 100$. Sum of three = $20 + 28 + 32 = 80$. Fourth = $100 - 80 = 20$.
- 20) **Choice B is correct.** **(6.G.1)** Account 1: $I = \$500 \times 0.03 \times 3 = \45 . Account 2: $I = \$500 \times 0.04 \times 2 = \40 . Difference: $\$45 - \$40 = \$5$, with Account 1 earning more.
- 21) **The correct answer is A and C are the true statements..** **(6.NS.3)** A is true: the formula $A = \frac{1}{2}bh$ applies to right, acute, and obtuse triangles. C is true: area is directly proportional to height when the base is fixed, so doubling the height doubles the area. B is false: in an obtuse triangle the height falls outside the triangle, so the height is not always a side. D is false: any side can serve as the base. E is false: the area of a triangle is exactly *half* the area of a rectangle with the same base and height, not greater.
- 22) **Choice A is correct.** **(6.G.3)** $2,805 \div 15 = 187$. Check: $15 \times 187 = 2,805$.
- 23) **Choice A is correct.** **(6.SP.2)** Multiply both by 10: $8.4 \div 7 = 1.2$.
- 24) **Choice B is correct.** **(6.SP.4)** $12 = 4 \times 3$ and $12 = 6 \times 2$, so 12 is divisible by both 4 and 6. Option A is a multiple of 4 but not 6; C is a multiple of 6 but not 4; D is neither.
- 25) **Choice A is correct.** **(6.SP.5c)** Distributive property: $9(3 + 4) = 9 \cdot 3 + 9 \cdot 4 = 27 + 36 = 63$. Choice A shows the expanded form.
- 26) **Choice D is correct.** **(6.SP.1)** Opposites have equal absolute values. $|-8| = 8$ and $|8| = 8$, so $8 + 8 = 16$.
- 27) **Choice D is correct.** **(6.NS.3)** Distance from -1.4 to 0 is $|0 - (-1.4)| = 1.4$ units.
- 28) **Choice A is correct.** **(6.EE.8c)** Only the point (3, 1) has both positive x and positive y coordinates, placing it in Quadrant I.
- 29) **Choice A is correct.** **(6.SP.3)** -3 is to the right of -6 on the number line, so $-3 > -6$. All other inequalities are false.



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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



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DETAILED ANSWER
EXPLANATIONS