

4

COMPLETE

Delaware DeSSA

Grade **MATH**

PRACTICE TESTS

5

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



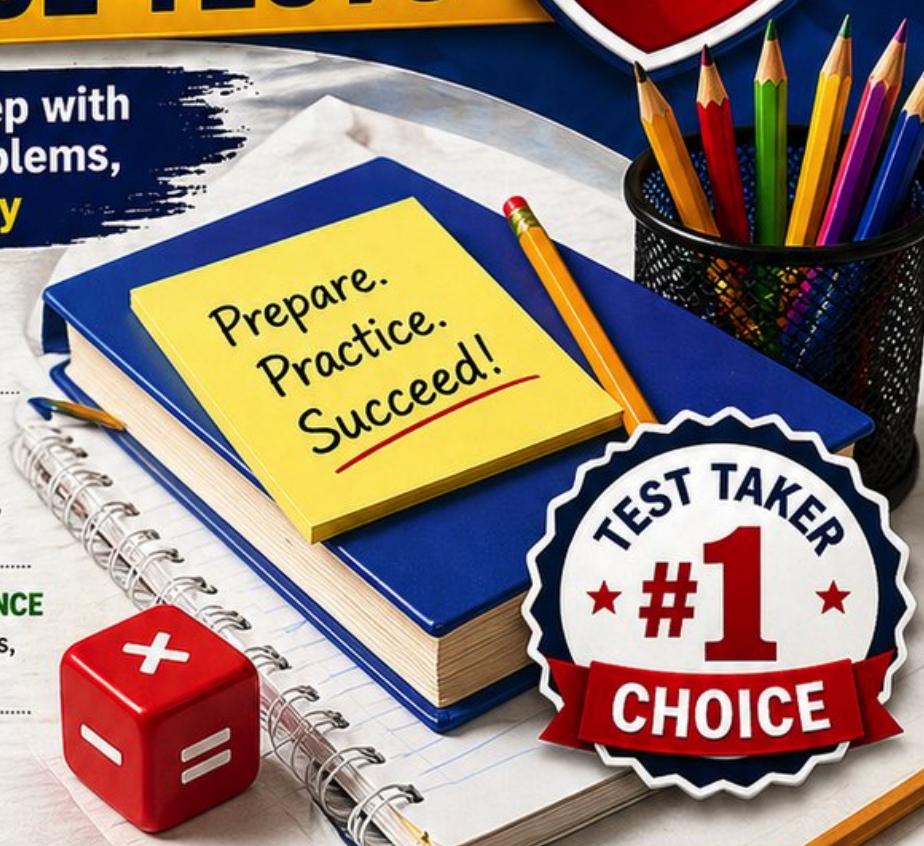
- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



**TEST TAKER
#1
CHOICE**



**BUILD STRONG
MATH SKILLS
& TEST READINESS**



**IMPROVE ACCURACY,
SPEED, AND
PROBLEM SOLVING**



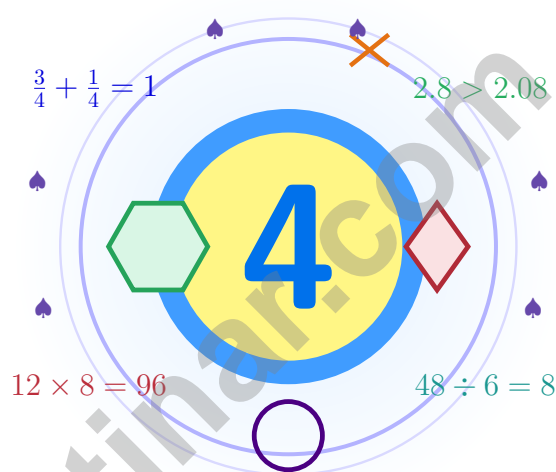
**PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY**



**ALIGNED TO
DELAWARE
STATE STANDARDS
(DESSA)**

4 Delaware Smarter Balanced Grade 5 Math Practice Tests

Four full tests, four lessons, one stronger mathematician



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The First State build calm, careful, confident habits.

Jay Daie and Reza Nazari



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Welcome to the Math Mission, Delaware

Four chances to read carefully, solve smartly, and grow stronger

Mission Briefing for Grade 5 Math Crew of Delaware

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math grows the way a seedling grows in Delaware soil – a little water, a little sunlight, and steady, patient root work.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Notice

Notice numbers, units, labels, and tricky words.

Sketch

Sketch a model, table, or quick number line.

Confirm

Confirm your answer with a quick estimate.

A strong mission habit for Delaware: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

How to Use This Book

A four-step routine that turns practice into real improvement

Step 1: Plan

Plan a quiet hour for one full test.
Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Practice

Take the test with calm focus.
Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Inspect

Inspect every answer like a careful builder.
Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

Step 4: Adjust

Adjust what needs adjusting for the next test.
Read the explanation, fix the work, and carry that lesson into the very next test.

A Four-Week Delaware Mission Map

Week	Mission Focus
Week 1	Take Test 1 and walk the shoreline – gentle steps, careful eyes.
Week 2	Take Test 2 and grow your word-problem habits and clear step-showing.
Week 3	Take Test 3 to polish fractions, decimals, and unit conversions.
Week 4	Take Test 4 with steady, careful work all the way to the final answer.



Scan me

Test Overview

What these four practice tests help Grade 5 students build

These three practice tests guide Grade 5 students in Delaware into the Delaware Smarter Balanced with the same calm care that built the First State. The goal is bigger than collecting right answers. Students are practicing how to read carefully, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every day.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, crossing out weak choices, and checking for reasonableness can save time and points.

Constructed-Response Questions

Students show steps, explain a method, or support an answer with clear math. Strong reasoning matters because it shows how the answer was found.

Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- tables, line plots, patterns, and coordinate points
- geometry and multi-step real-world problem solving

What strong Smarter Balanced-style work looks like: accurate math, readable steps, the right labels or units, and a final answer that really matches the question being asked.



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Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

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1 meter (m) = 100 centimeters (cm)

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CAPACITY

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1) Pattern: $8.1 \div 10 = 0.81$; $8.1 \div 100 = 0.081$; $8.1 \div 1,000 = ?$

A. 81

C. 8.1

B. 0.081

D. 0.0081

2) Multiply both numerator and denominator of $\frac{1}{6}$ by 5. What is the equivalent fraction?

A. $\frac{5}{11}$

C. $\frac{6}{30}$

B. $\frac{5}{30}$

D. $\frac{1}{11}$

3) Find the missing minuend in simplest form: $-\frac{1}{4} = \frac{7}{12}$

A. $\frac{9}{12}$

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

B. $\frac{8}{12}$

D. $\frac{11}{12}$

4) A bar model shows 4 copies of $\frac{1}{3}$.



4 groups of $\frac{1}{3}$

What is $4 \times \frac{1}{3}$?

A. $\frac{1}{12}$

C. $\frac{4}{12}$

B. $\frac{4}{3}$

D. $1\frac{2}{3}$

5) A painter covers $\frac{2}{9}$ of a wall Monday and $\frac{4}{9}$ Wednesday. How much of the wall is painted total?

A. $\frac{2}{9}$

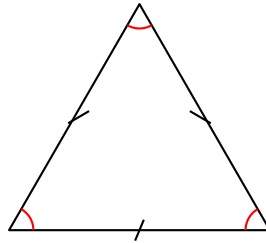
C. $\frac{6}{9}$

B. $\frac{4}{9}$

D. $\frac{8}{9}$

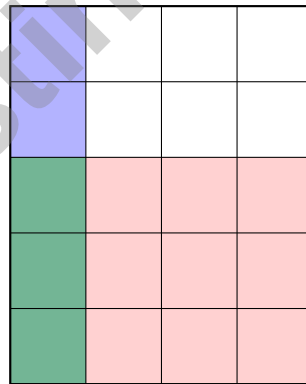


- 6) Look at the angle marks and side marks on the triangle. Which type of triangle is shown?



All angles and sides marked the same

- A. Scalene
- B. Isosceles
- C. Equilateral
- D. Right
- 7) Predict the result without calculating: Is $7 \times \frac{9}{7}$ greater than, less than, or equal to 7?
- A. Greater than 7
- B. Less than 7
- C. Equal to 7
- D. Impossible to tell
- 8) The area model below shows $\frac{1}{4} \times \frac{3}{5}$.



What is the area of the double-shaded overlap?

- A. $\frac{3}{25}$
- B. $\frac{3}{20}$
- C. $\frac{1}{9}$
- D. $\frac{4}{20}$



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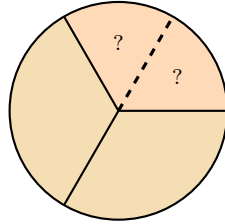
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- 1) A cookie is cut into 3 equal pieces. One piece is $\frac{1}{3}$ of the cookie. That piece is shared equally by 2 children. What fraction of the whole cookie does each child get?



- A. $\frac{1}{6}$ of the cookie
- B. $\frac{1}{2}$ of the cookie
- C. $\frac{2}{3}$ of the cookie
- D. $\frac{1}{5}$ of the cookie
- 2) A school divided 52.3 kg of flour equally among 10 classrooms. How much flour did each classroom get?
- A. 523 kg
- B. 5.23 kg
- C. 0.523 kg
- D. 52.3 kg
- 3) How many zeros are in the product $2,000 \times 50$?
- A. 3
- B. 4
- C. 5
- D. 6
- 4) A swimming pool is 25 m long, 10 m wide, 2 m deep. Find its volume.

Record your answer in the space provided.



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1) A sports store orders soccer balls. There are 31 cases with 24 balls in each case. How many soccer balls are ordered?

A. 720

C. 760

B. 744

D. 780

2) What is $\frac{2}{3} \times \frac{1}{4}$?

A. $\frac{2}{7}$

C. $\frac{2}{12}$ or $\frac{1}{6}$

B. $\frac{1}{12}$

D. $\frac{3}{4}$

3) What is $0.6 \div 100$?

A. 0.6

C. 0.006

B. 0.06

D. 6

4) The two fraction bars show $\frac{1}{2}$ and $\frac{1}{4}$ aligned side by side. What is the common denominator?



A. 2

C. 6

B. 4

D. 8

5) A recipe calls for $\frac{2}{3}$ cup of sugar and $\frac{1}{3}$ cup of flour. What is the total amount of dry ingredients measured?

A. $\frac{1}{3}$ cup

C. 1 cup

B. $\frac{1}{2}$ cup

D. $\frac{2}{3}$ cup



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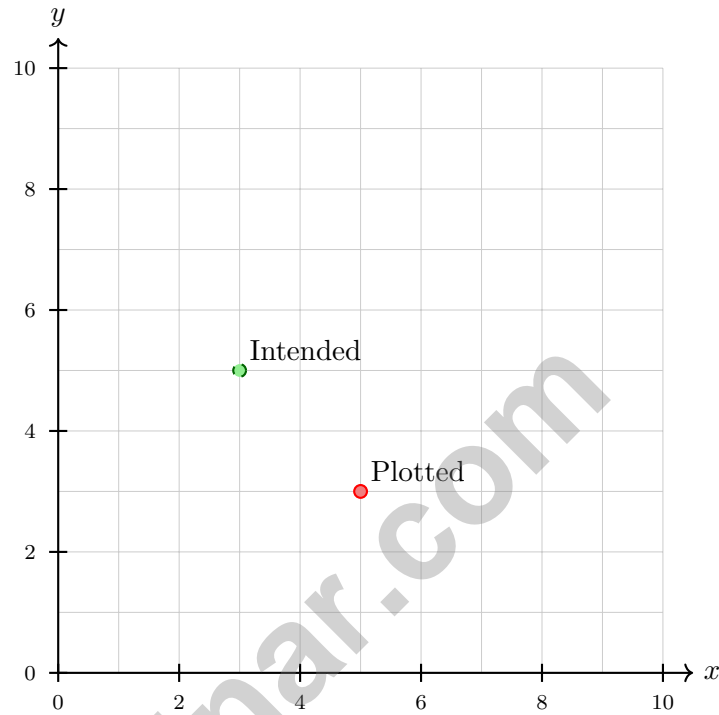
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- 1) A student plotted a point at $(5, 3)$ but meant to plot $(3, 5)$. Which mistake did the student make?



- A. The x - and y -coordinates were swapped.
- B. The point was moved 2 units left.
- C. The point was moved 2 units down.
- D. The point was named correctly.
- 2) Evaluate: $7 \times 6 - 4 \times 5$

- A. 22
- B. 30
- C. 38
- D. 62



Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (5.NBT.A.2) Dividing by 1,000 moves the decimal three places left, so 8.1 becomes 0.0081.
- 2) **Choice B is correct.** (5.NF.A.2) $\frac{1 \times 5}{6 \times 5} = \frac{5}{30}$.
- 3) **Choice C is correct.** (5.NF.A.2) $\frac{1}{4} = \frac{3}{12}$. If $x - \frac{3}{12} = \frac{7}{12}$, then $x = \frac{10}{12} = \frac{5}{6}$.
- 4) **Choice B is correct.** (5.NF.B.4) The model shows 4 one-third pieces. That is $4 \times \frac{1}{3} = \frac{4}{3}$, which is one whole and one more third, or $1\frac{1}{3}$.
- 5) **Choice C is correct.** (5.NF.A.2) $\frac{2}{9} + \frac{4}{9} = \frac{6}{9} = \frac{2}{3}$ of the wall is painted.
- 6) **Choice C is correct.** (5.G.B.4) The side marks show all three sides are equal. The angle marks also match. A triangle with all sides equal is equilateral.
- 7) **Choice A is correct.** (5.NF.B.5a) Since $\frac{9}{7} > 1$, multiplying 7 by $\frac{9}{7}$ produces a larger result. No computation needed!
- 8) **Choice B is correct.** (5.NF.B.4b) The overlap region contains 3 shaded squares out of 20 total, so the area is $\frac{3}{20}$.
- 9) **Choice B is correct.** (5.NF.A.1) Add: $\frac{9}{10} + 4\frac{1}{10} = 5$.
- 10) **Choice D is correct.** (5.MD.C.5) The base area is $10 \times 6 = 60$ square feet. Since $360 \div 60 = 6$, the locker is 6 ft tall.
- 11) **Choice B is correct.** (5.MD.A.1) 1 liter = 1,000 milliliters. Multiply: $3.5 \times 1000 = 3500$ mL.
- 12) **Choice A is correct.** (5.MD.A.1) 1 yard = 3 feet. So 2 yards = $2 \times 3 = 6$ feet. The bar model shows 3 feet per yard for 2 yards.
- 13) **Choice B is correct.** (5.NBT.A.2) $18 \times 10^4 = 18 \times 10000 = 180000$ artifacts.
- 14) **Choice B is correct.** (5.OA.B.3) Multiplying by 100,000 gives 7 followed by five zeros, so the product is 700,000.
- 15) **Choice A is correct.** (5.NF.B.5a) $\frac{6}{5} > 1 > \frac{5}{6}$, so the first product (24) is greater than the second product (about 16.67).
- 16) **Choice D is correct.** (5.G.A.2) Each term of B is 2 times the corresponding A term.
- 17) **Choice B is correct.** (5.MD.C.3b) Box X: $4 \times 5 \times 8 = 160$ cu. cm. Box Y: $2 \times 10 \times ? = 160$. So $20 \times ? = 160$, thus $? = 8$ cm.
- 18) **Choice A is correct.** (5.G.A.2) The first coordinate, 50, matches the x-axis label: gallons used. The second coordinate, 400, matches the y-axis label: miles traveled. So the point means miles traveled is 400 when gallons used is 50.
- 19) **The correct answer is 0.321.** (5.NBT.A.2) Move the decimal point two places left: $32.1 \rightarrow 0.321$.
- 20) **The correct answer is 10,000.** (5.NBT.A.2) Think $5 \times 2 = 10$, then include the three zeros from 50 and 200. The product is 10,000.
- 21) **Choices A, B are correct.** (5.NF.A.2) The LCM of 3 and 5 is 15, so A is true. Also, $\frac{1}{3} = \frac{5}{15}$, so B is true. C adds denominators, and D miscomputes.
- 22) **Choice D is correct.** (5.NF.B.5b) $\frac{1}{5} \times \frac{2}{7} = \frac{1 \times 2}{5 \times 7} = \frac{2}{35}$.
- 23) **Choice C is correct.** (5.NBT.A.3b) The fastest time is the smallest: $12.35 < 12.40 < 12.45 < 12.54$. Casey's time of 12.35 seconds is fastest.
- 24) **Choice B is correct.** (5.NBT.A.2) $0.25 \times 100 = 25$ miles (move decimal 2 places right).
- 25) **Choice A is correct.** (5.G.A.1) If the y-coordinate is 0, the point is on the horizontal line (x-axis).
- 26) **Choice B is correct.** (5.MD.B.2) Count the X marks above $5\frac{1}{2}$. There are 3 X marks, so 3 puppies weigh exactly $5\frac{1}{2}$ pounds.
- 27) **The correct answer is $\frac{1}{8}$.** (5.NF.B.7c) $\frac{1}{4} \div 2 = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$.
- 28) **The correct answer is 24.** (5.OA.A.1) Left: $50 - 20 = 30$, $30 \div 5 = 6$. Right: $2 + 4 = 6$, $3 \times 6 = 18$. Sum: $6 + 18 = 24$.
- 29) **Choice B is correct.** (5.NBT.A.3a) The 5 is in the tenths place, so $1.5 = 1 + 0.5$.
- 30) **Choice B is correct.** (5.OA.A.2) The words give the order: add 7 and 3 first, so use parentheses. Then multiply that result by 5, and finally subtract 20.
- 31) **Choice C is correct.** (5.NF.A.1) $\text{LCM}(5,3,15) = 15$. $\frac{1}{5} = \frac{3}{15}$, $\frac{1}{3} = \frac{5}{15}$, $\frac{1}{15} = \frac{1}{15}$. Sum = $\frac{3}{15} + \frac{5}{15} + \frac{1}{15} = \frac{9}{15} = \frac{3}{5}$ of the wall.



Notes From the Math Gardener

Dear Math Gardener,

◇ Look at how much you've grown! 4 practice tests is like 4 seasons of planting and harvesting. Each problem was a seed, each effort was water, and each "aha!" was sunshine. Your math garden is strong now—and it shows. ◇

★ **What gardeners know:** growth is steady, not sudden. You don't see roots growing, but they are. You don't always feel yourself getting smarter, but you are. The proof is in the questions you can solve today that felt impossible 4 tests ago. ★

Garden Inspection Report

- **Roots (foundation):** DEEP! Your basic skills are solid.
- **Stems (structure):** STURDY! Your problem-solving steps hold up.
- **Leaves (skills):** LUSH! You have many strategies to draw on.
- **Flowers (confidence):** BLOOMING! You believe in your skills.

Gardener's wisdom: keep watering your math garden long after the test. Every habit you built (read carefully, plan, check) will grow with you for years. The test is just one harvest. Your garden keeps growing.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Gardener (Keep Growing!)

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

WHAT'S INSIDE:



4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



COVERS ALL GRADE 5 TOPICS

Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



MIXED REVIEW & WORD PROBLEMS

Build problem-solving skills with mixed review questions and real-world word problems.



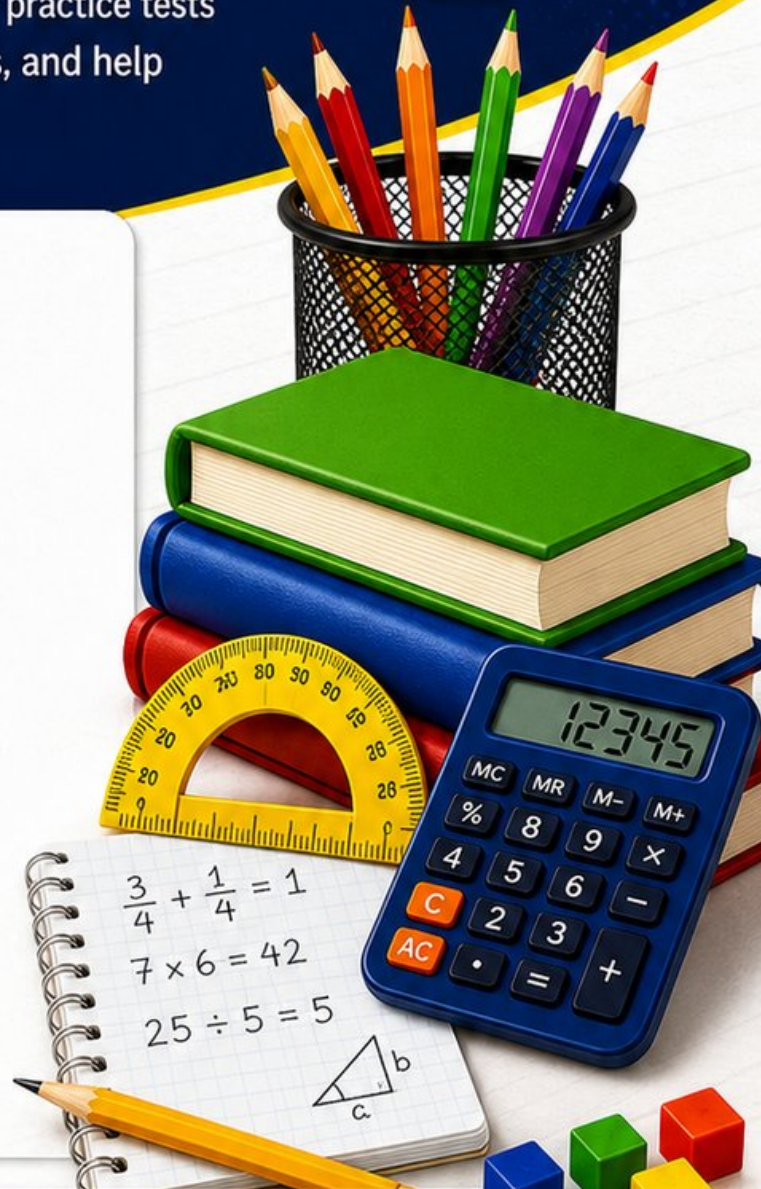
DETAILED ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



BUILD CONFIDENCE & IMPROVE SCORES

Practice consistently, reduce test anxiety, and achieve your best score!



PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.



Strengthen
Math Skills



Improve
Accuracy
& Speed



Master
Essential
Concepts



Boost
Confidence
on Test Day



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and practice materials!



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Smart Practice. Stronger Results.