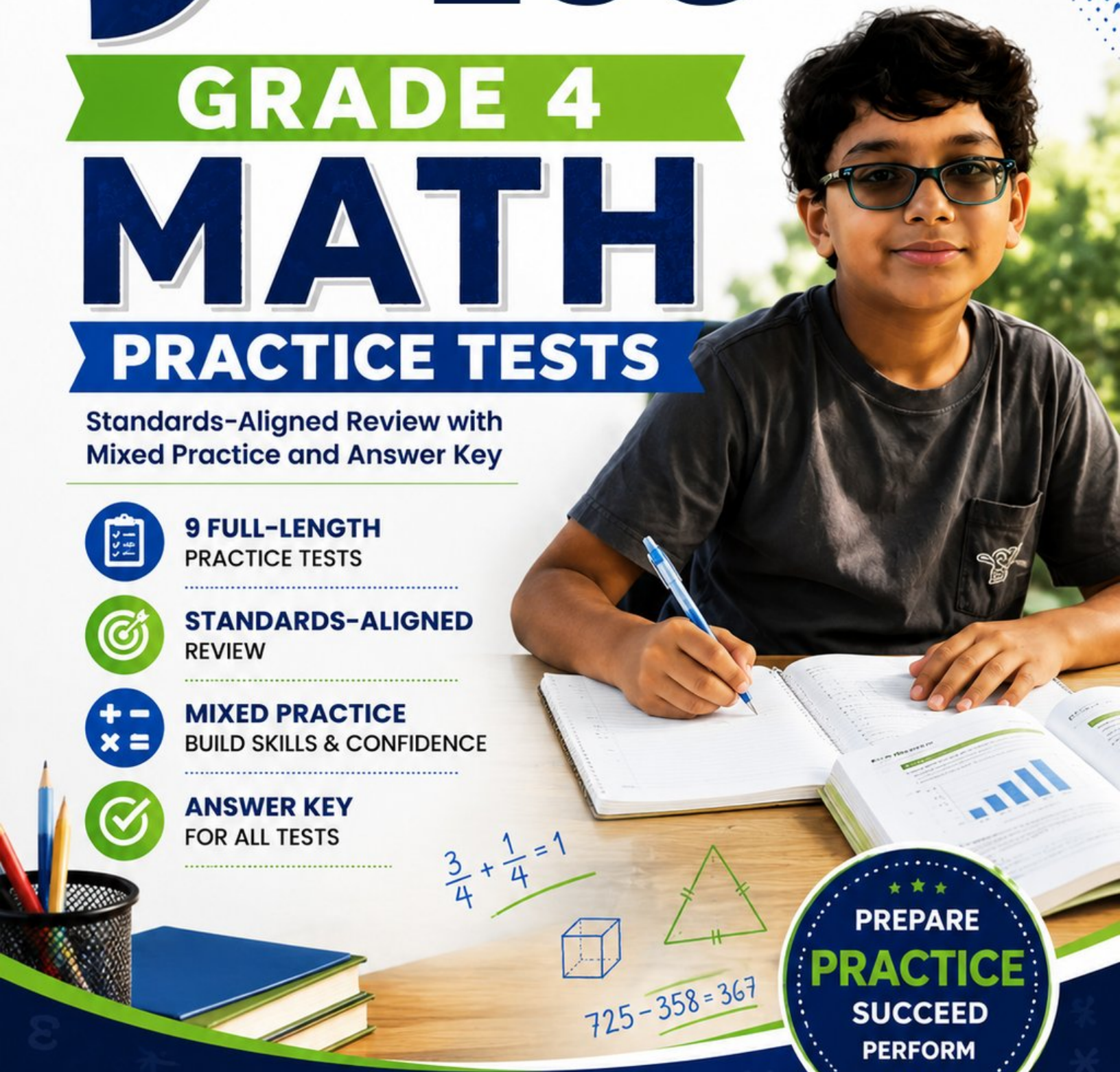
9 North Carolina EOG

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with Mixed Practice and Answer Key

- **9 FULL-LENGTH** PRACTICE TESTS
- **STANDARDS-ALIGNED** REVIEW
- **MIXED PRACTICE** BUILD SKILLS & CONFIDENCE
- **ANSWER KEY** FOR ALL TESTS

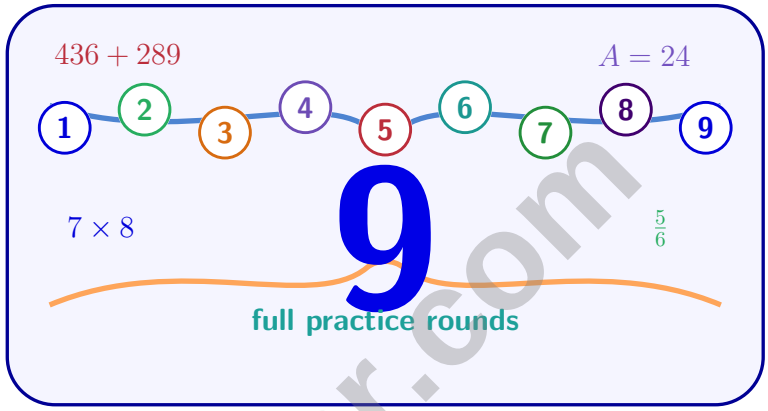


PREPARE
PRACTICE
SUCCEED
PERFORM

PRACTICE TODAY.
SUCCEED TOMORROW.

9 North Carolina EOG Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 4 practice rounds for EOG, built around mountain ridges, coastal maps, and balanced math choices, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari

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Welcome, North Carolina Math Explorer!

Nine steady rounds on the Tar Heel State math route

This book gives you nine full Grade 4 practice tests for EOG. Each round uses mountain ridges, coastal maps, and balanced math choices to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

North Carolina Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

How to Use This Book

A ten-session routine for North Carolina EOG review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Tar Heel State math route.
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.

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

What Is Inside?

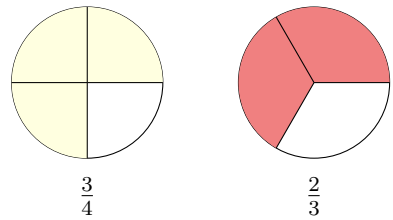
Nine tests, 270 questions, and a full EOG review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

Table of Contents

1) Look at the circles. Which fraction is greater?



$\frac{3}{4}$ $\frac{2}{3}$

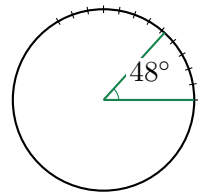
☐ A. $\frac{3}{4}$
☐ B. $\frac{2}{3}$
☐ C. They are equal
☐ D. Cannot tell

2) Ethan has 5 toy soldiers. Owen has 7 times as many. How many more soldiers does Owen have?

☐ A. 12
☐ B. 35
☐ C. 25
☐ D. 30

3) Dakota has 32 beads. Dakota has 4 times as many beads as Ryan. How many beads does Ryan have?

4)



Diego drew an angle that turns through 48 one-degree angles. What is the measure of his angle?

☐ A. 24°
☐ B. 48°
☐ C. 96°
☐ D. 480°

5) Turning $\frac{1}{3}$ of the way around a circle equals how many degrees?

☐ A. 60°
☐ B. 120°
☐ C. 180°
☐ D. 240°

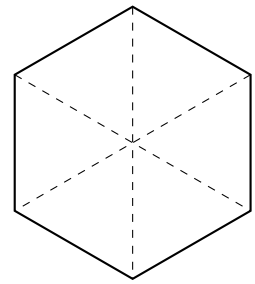
6) Which is NOT a geometric figure mentioned in points, lines, and rays?

☐ A. A point
☐ B. A line
☐ C. A ray
☐ D. A circle

7) Which equation shows a correct use of the standard algorithm for 23×18?

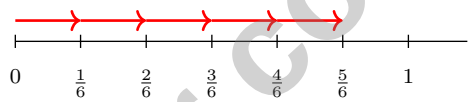
☐ A. $23 \times 1 + 23 \times 8 = 23 + 184 = 207$
☐ B. $(23 \times 10) + (23 \times 8) = 230 + 184 = 314$
☐ C. $(2 \times 8) + (3 \times 8) = 16 + 24 = 40$
☐ D. $(23 \times 8) + (23 \times 10) = 184 + 230 = 414$

8) How many lines of symmetry does this regular hexagon have?



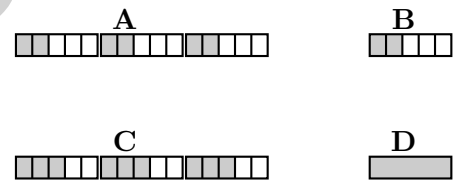
☐ A. 3
☐ B. 4
☐ C. 5
☐ D. 6

9) A number line shows unit-fraction jumps of $\frac{1}{6}$ starting at 0. After 5 jumps, you are at position:



☐ A. $\frac{3}{6}$
☐ B. $\frac{4}{6}$
☐ C. $\frac{5}{6}$
☐ D. $\frac{6}{6}$

10) Which picture shows $3 \times \frac{2}{5}$?



☐ A. Top-left picture
☐ B. Top-right picture
☐ C. Bottom-left picture
☐ D. Bottom-right picture

1) Which pair of decompositions both equal $\frac{8}{10}$?

☐ A. $\frac{2}{10} + \frac{6}{10}$ and $\frac{4}{10} + \frac{4}{10}$
☐ B. $\frac{1}{10} + \frac{6}{10}$ and $\frac{3}{10} + \frac{5}{10}$
☐ C. $\frac{2}{10} + \frac{5}{10}$ and $\frac{4}{10} + \frac{3}{10}$
☐ D. $\frac{5}{10} + \frac{2}{10}$ and $\frac{6}{10} + \frac{1}{10}$

2) A shop owner buys 5 bottles of cleaner, with 12 fluid ounces in each bottle. How many fluid ounces of cleaner does he buy?

☐ A. 17 fl oz
☐ B. 60 fl oz
☐ C. 65 fl oz
☐ D. 72 fl oz

3) Jayden read $2\frac{1}{8}$ chapters in the morning, $3\frac{4}{8}$ chapters in the afternoon, and $1\frac{2}{8}$ chapters in the evening. How many chapters did he read in total?

☐ A. $6\frac{7}{8}$ chapters
☐ B. $6\frac{6}{8}$ chapters
☐ C. $6\frac{5}{8}$ chapters
☐ D. $7\frac{1}{8}$ chapters

4) Which fraction is in simplest form?

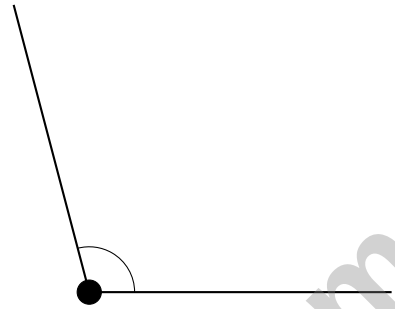
☐ A. $\frac{2}{6}$
☐ B. $\frac{6}{12}$
☐ C. $\frac{4}{10}$
☐ D. $\frac{3}{8}$

5) Which is greater, $\frac{3}{5}$ or $\frac{1}{2}$?

6) A string is $\frac{2}{8}$ meter long. If you use 2 strings of this same length, how long is the total string?

☐ A. $\frac{4}{8}$ meter (or $\frac{1}{2}$ meter)
☐ B. $\frac{2}{16}$ meter
☐ C. $\frac{1}{4}$ meter
☐ D. 1 meter

7)



Which statement about this angle is correct?

☐ A. It is less than a right angle
☐ B. It is a right angle
☐ C. It is more than a right angle but less than straight
☐ D. It is a straight angle

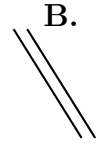
8) A figure that has more than 4 lines of symmetry must be which of the following?

☐ A. A triangle
☐ B. A quadrilateral
☐ C. A regular polygon with 5 or more sides or a circle
☐ D. A square

9) Which diagram shows two lines that will eventually intersect?

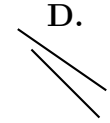
A.

B.



C.

D.



☐ A. Diagram A
☐ B. Diagram B
☐ C. Diagram C
☐ D. Diagram D

1)

Th	H	T	O
5	2	3	4

This place-value chart shows 5,234. If we add 3,456, what digit appears in the hundreds place of the sum?

☐ A. 6
☐ B. 7
☐ C. 8
☐ D. 9

2) Which comparison is correct?

☐ A. $456{,}200 > 456{,}300$
☐ B. $345{,}678 < 345{,}667$
☐ C. $189{,}450 = 189{,}451$
☐ D. $234{,}567 < 234{,}576$

3) Which of these is NOT equivalent to $\frac{1}{3}$?

☐ A. $\frac{2}{6}$
☐ B. $\frac{3}{9}$
☐ C. $\frac{2}{5}$
☐ D. $\frac{4}{12}$

4) Look at the pattern: $5, 10, 20, 40, \ldots$. Which rule describes it?

☐ A. Add 5
☐ B. Multiply by 3
☐ C. Add 10
☐ D. Multiply by 2

5) Look at the place-value table and find the missing decimal.

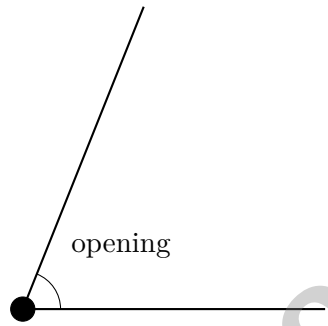
Tenths	Hundredths	Decimal
5	8	?

What is the decimal?

☐ A. 0.58
☐ B. 0.85
☐ C. 5.8
☐ D. 58.0

6) How many unit fractions of $\frac{1}{9}$ make $\frac{5}{9}$?

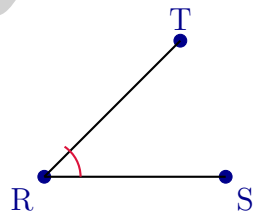
7)



The diagram shows an angle with a small opening. Which type of angle is this?

- ☐ A. A right angle
- ☐ B. An acute angle
- ☐ C. An obtuse angle
- ☐ D. A straight angle

8) Look at this diagram:



Using three points, how would you name the angle shown by the red arc?

- ☐ A. Angle S
- ☐ B. Angle TRS
- ☐ C. Angle ST
- ☐ D. Angle R

Practice Test Answer Keys

How to use this section with a Grade 4 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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice A is correct.** NC.4.NF.1 The visual models show the story: $\frac{3}{4}$'s circle is clearly more filled. Verify with twelfths: $\frac{3}{4} = \frac{9}{12}$ and $\frac{2}{3} = \frac{8}{12}$, so $\frac{3}{4} > \frac{2}{3}$.
2) **Choice D is correct.** NC.4.OA.1 Step 1: find Owen's soldiers: $5 \times 7 = 35$. Step 2: "how many *more*" is a subtraction: $35 - 5 = 30$. Owen has **30** more soldiers than Ethan.
3) **The correct answer is** 8. NC.4.OA.1 Dakota's 32 beads are 4 times Ryan's amount. To find Ryan's, divide: $32 \div 4 = \mathbf{8}$ beads.
4) **Choice B is correct.** NC.4.MD.6 When an angle turns through 48 one-degree angles, its measure is **48°**.
5) **Choice B is correct.** NC.4.MD.6 One-third of the circle is $\frac{1}{3} \times 360° = \mathbf{120}°$.
6) **Choice D is correct.** NC.4.G.1 This topic is all about points, lines, rays, and angles — circles are a different geometric shape learned in another lesson.
7) **Choice D is correct.** NC.4.NBT.5 The standard algorithm breaks the multiplier by place value: $(23 \times 8) + (23 \times 10) = 184 + 230 = \mathbf{414}$.
8) **Choice D is correct.** NC.4.G.3 A regular hexagon (6 equal sides) is balanced six ways. Three lines pass through opposite corners, and three pass through the middle of opposite sides. The answer is **6** lines of symmetry.
9) **Choice C is correct.** NC.4.NF.4 Starting at 0, each jump is $\frac{1}{6}$. After 5 jumps, we've moved $5 \times \frac{1}{6} = \frac{5}{6}$ of the way.
10) **Choice A is correct.** NC.4.NF.4 For $3 \times \frac{2}{5}$, we need 3 bars, each divided into 5 parts with 2 parts shaded in each. Picture A shows three bars with two-fifths shaded in each bar. The answer is Picture A.
11) **Choice B is correct.** NC.4.NF.3 Subtract the wholes: $3 - 1 = 2$. Subtract the fractions: $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$. The difference is $\mathbf{2\frac{2}{5}}$.
12) **Choice D is correct.** NC.4.MD.2 Since 1 mile = 1,760 yards, divide: $8{,}800 \div 1{,}760 = 5$ miles. The answer is **5** miles.
13) **Choice A is correct.** NC.4.NF.3 One whole ($\frac{4}{4}$) as unit fractions means four pieces of $\frac{1}{4}$: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4}$ ✓.
14) **Choice A is correct.** NC.4.NBT.4 Subtract from 100,000 using regrouping across multiple zeros. The answer is **32,766**.
15) **Choice D is correct.** NC.4.OA.3 Two steps! Step 1: add the new shipment: $100 + 35 = 135$ apples. Step 2: take away the ones sold: $135 - 42 = 93$ apples left.
16) **The correct answer is A, E.** NC.4.NBT.6 Use long division: $27 \div 4 = 6$ r3, bring down the 8 to get $38 \div 4 = 9$ r2, bring down the 4 to get $24 \div 4 = 6$. The quotient is 696 with no remainder. Statement A is correct (quotient is 696) and statement E is correct (no remaining pieces). Statements B, C, and D are incorrect.
17) **Choice B is correct.** NC.4.MD.8 At $\frac{2}{4}$ inch there are 3 X marks. At $\frac{3}{4}$ inch there is 1 X mark. The difference is $3 - 1 = \mathbf{2}$.
18) **Choice C is correct.** NC.4.NBT.1 Test each: 32 is even (so divisible by 2); $35 = 5 \times 7$; $39 = 3 \times 13$. Only 37 has no factors besides 1 and itself—**prime!**
19) **Choice C is correct.** NC.4.NF.3 Compare place by place: Write 0.6 as 0.60. Now both have the same number of decimal places. Since $60 > 59$ hundredths, we have $0.6 > 0.59$.
20) **Choice D is correct.** NC.4.NBT.1 We're rounding to the nearest ten. Look at the ones digit: 5. Since $5 \geq 5$, we round UP! The tens digit changes from 8 to 9, giving us **14,290**. ✓
21) **Choice C is correct.** NC.4.MD.6 The two rays forming an angle are called the sides (or rays) of the angle.
22) **Choice B is correct.** NC.4.NF.4 Eight party favor bags, each with $\frac{1}{6}$ pound of candy, use $8 \times \frac{1}{6} = \frac{8}{6}$, which is $1\frac{1}{3}$ pounds.
23) **Choice D is correct.** NC.4.NBT.7 Thousands and hundreds match. Compare the tens place: $2 < 5$, so $3{,}425 < 3{,}450$ ✓
24) **Choice B is correct.** NC.4.NF.3 Break 0.34 into parts: 3 tenths (0.3) plus 4 hundredths (0.04) equals $0.3 + 0.04 = 0.34$.
25) **The correct answer is** 0.5. NC.4.NF.3 Fifty hundredths equals 0.5.
26) **Choice C is correct.** NC.4.NF.4 Diego hops in sixths. After 6 hops, he reaches $6 \times \frac{1}{6} = \frac{6}{6} = 1$.
27) **The correct answer is** $1\frac{1}{5}$. NC.4.NF.3 The baker used some almonds from her supply. Subtract the amount used: $3\frac{2}{5} - 2\frac{1}{5} = 1\frac{1}{5}$ pounds of almonds remain.

Hi, Curious Scientist!

◇ 9 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

⋆ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ⋆

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

PRACTICE TODAY. ACHIEVE TOMORROW!

This Grade 4 Math Practice Tests book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

Whether used at home, in the classroom, or for independent review, this book provides meaningful practice that helps students grow stronger with every test.

PERFECT FOR:

- Classroom Practice
- Homework & Review
- Independent Learning
- Test Preparation
- Skill Reinforcement

CONFIDENCE IN MATH. SUCCESS FOR LIFE.

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.

Test Confidence
Become familiar with test-style questions and formats.

Track Progress
Measure growth across multiple practice tests.

Academic Success
Strengthen skills needed for future learning.

TOPICS COVERED

- Place Value & Number Sense
- Multi-Digit Addition & Subtraction
- Multiplication & Division
- Fractions & Equivalent Fractions
- Geometry & Shapes
- Measurement & Data
- Perimeter & Area
- Word Problems
- Patterns & Algebraic Thinking
- Graphs & Data Interpretation
- Mathematical Reasoning
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- Strengthens Critical Thinking & Problem Solving
- Encourages Independent Learning
- Prepares Students for Future Success