

4

North Carolina



EOG



GRADE 4

MATH

PRACTICE TESTS


 5 FULL-LENGTH PRACTICE TESTS

 STANDARDS-ALIGNED REVIEW

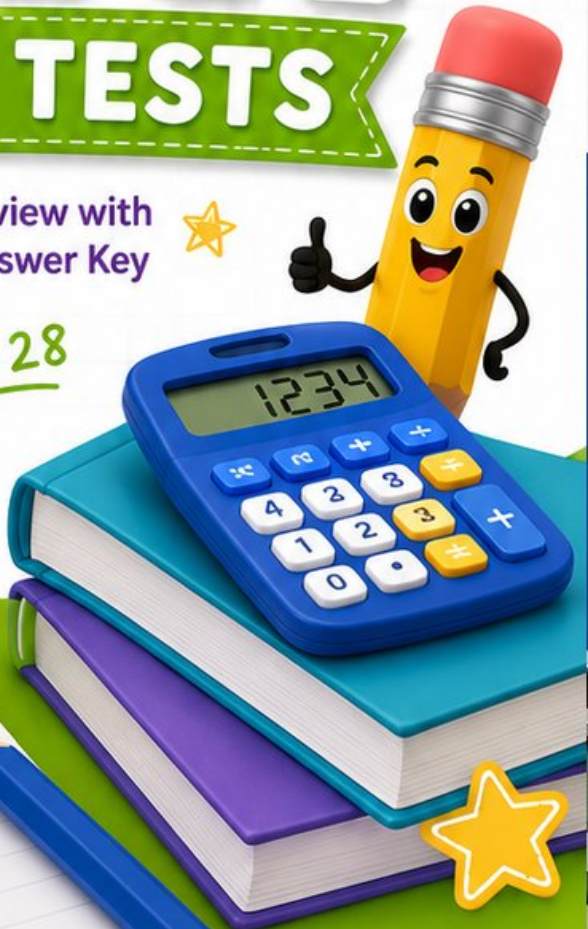
 MIXED PRACTICE QUESTIONS

 ANSWER KEY INCLUDED

★ Standards-Aligned Review with Mixed Practice and Answer Key ★

 $4 \times 7 = 28$
 $36 \div 9 = 4$


$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$





4 North Carolina EOG Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, North Carolina Math Explorer!

Four steady rounds on the Tar Heel State math route

This book gives you four 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.

Read

Plan

Check

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?

Four tests, 120 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 2–4 | Skill-building rounds with fractions, measurement, area, data, and two-step problems. |
| Tests 2–4 | 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.



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For more practice
& answers

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1) A toy store displays 8 shelves of action figures. Each shelf holds 45 figures. How many figures are on display?

A. 280

C. 320

B. 400

D. 360

2) How many lines of symmetry does a square have?

A. 1

C. 3

B. 2

D. 4

3) Find $\frac{5}{6} + \frac{1}{6}$.

4) A container of juice has $\frac{9}{10}$ liter. After serving some drinks, $\frac{4}{10}$ liter is left. How much juice was served?

A. $\frac{5}{10}$

C. $\frac{4}{10}$

B. $\frac{13}{10}$

D. $\frac{1}{10}$

5) Liam starts his homework at 3:15 p.m. and finishes at 4:45 p.m. How much time did he spend on homework?

A. 30 minutes

C. 60 minutes

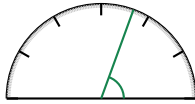
B. 45 minutes

D. 90 minutes



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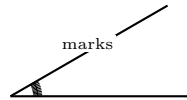
6)



What is the measure of the angle shown, rounded to the nearest 10 degrees?

- A. 70 degrees
- B. 60 degrees
- C. 80 degrees
- D. 90 degrees

7)



This angle is marked from 0° to 30°. How many one-degree angles does the angle contain?

- A. 29 one-degree angles
- B. 30 one-degree angles
- C. 31 one-degree angles
- D. 60 one-degree angles

8)



A fruit stand has 24 apples. The number of apples is 4 times the number of oranges. How many oranges are there?

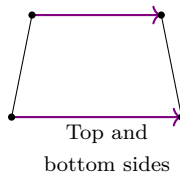
- A. 4
- B. 12
- C. 8
- D. 6

9) Complete the equation: $7 \times \frac{1}{\underline{\quad}} = \frac{7}{9}$

- A. 7
- B. 2
- C. 9
- D. 16



- 10) What is 87,543 rounded to the nearest hundred?
- A. 88,000 C. 87,600
 B. 87,540 D. 87,500
- 11) The minute hand starts at 12 and moves to 6. How many degrees does it rotate?
- A. 90° C. 270°
 B. 180° D. 360°
- 12) What is $1,245 \div 5$?
- A. 229 C. 289
 B. 269 D. 249
- 13) One batch of a recipe uses $\frac{2}{5}$ cup of flour. If you make 3 batches, how much flour do you use?
- A. $\frac{2}{15}$ cup C. $\frac{3}{5}$ cup
 B. $\frac{6}{5}$ cups (or $1\frac{1}{5}$ cups) D. $\frac{5}{5}$ cup
- 14) Which product equals $\frac{8}{12}$?
- A. $2 \times \frac{1}{12}$ C. $8 \times \frac{1}{12}$
 B. $4 \times \frac{1}{12}$ D. $12 \times \frac{1}{8}$
- 15) Look at the quadrilateral. Which pair of sides are parallel?



- A. Top and bottom C. All four sides
 B. Left and right D. No sides are parallel



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1) A rectangular field has a perimeter of 80 meters. The length is 25 meters. What is the width?

A. 10 m

C. 20 m

B. 15 m

D. 55 m

2) Look at the base-ten model below. What number does it represent?



A. 6,142

C. 1,462

B. 4,612

D. 4,162

3) Expand 2,814 using the place-value model:

| Thousands | Hundreds | Tens | Ones |
|-----------|----------|------|------|
| 2 | 8 | 1 | 4 |

A. $2,000 + 8,000 + 14$

C. $2 + 8 + 1 + 4$

B. $2,000 + 80 + 14$

D. $2,000 + 800 + 10 + 4$

4) Maya buys 3 packs of notebooks. Each pack has 12 notebooks. Her friend gives her 6 more. She needs to distribute them equally to 6 students. How many notebooks does each student get?

A. 8

C. 9

B. 6

D. 7

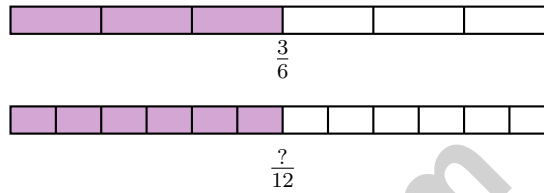


1) Order these fractions from least to greatest: $\frac{1}{6}, \frac{5}{12}, \frac{1}{2}$.

- A. $\frac{1}{2}, \frac{5}{12}, \frac{1}{6}$
- B. $\frac{1}{6}, \frac{5}{12}, \frac{1}{2}$

- C. $\frac{5}{12}, \frac{1}{6}, \frac{1}{2}$
- D. $\frac{1}{2}, \frac{1}{6}, \frac{5}{12}$

2) Look at the two fraction bars. Both are the same length.



What number replaces the question mark?

- A. 4
- B. 5

- C. 6
- D. 8

3) Which decimal is between $\frac{2}{10}$ and $\frac{4}{10}$?

- A. 0.1
- B. 0.3

- C. 0.5
- D. 0.6

4) Add: $19,876 + 20,234 = ?$

- A. 39,110
- B. 40,210

- C. 39,210
- D. 40,110



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5) A bookstore receives 7 shipments of books. Each shipment has 256 books. How many books are received?

A. 1792

C. 1589

B. 1648

D. 1856

6) Mia says the angle she drew contains 92 one-degree angles. What is the measure of her angle?

A. 92°

C. 184°

B. 46°

D. 9.2°

7) Sam bought $\frac{4}{8}$ pound of almonds. His mom bought $\frac{3}{8}$ pound. How many pounds of almonds did they buy together, as a fraction or mixed number?

8) What is the name of the point where the two rays of an angle meet?

A. The arc

C. The vertex

B. The side

D. The interior

9) Emma starts reading at 1:20 p.m. and finishes at 2:35 p.m. How many minutes did she read?



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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (NC.4.NBT.5) Break apart: $8 \times (40 + 5) = 320 + 40 = 360$ figures.
- 2) **Choice D is correct.** (NC.4.G.3) A square is perfectly balanced! Imagine folding it in half four different ways: vertically through the center, horizontally through the center, and diagonally both directions—each fold creates matching halves. The answer is 4 lines of symmetry.
- 3) **The correct answer is 1.** (NC.4.NF.3) Add the numerators: $5 + 1 = 6$. We get $\frac{6}{6}$, which equals 1 whole.
- 4) **Choice A is correct.** (NC.4.NF.3) The container started full and some juice was served. Find how much was served by subtracting what's left from what started: $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$ liter of juice was served.
- 5) **Choice D is correct.** (NC.4.MD.2) Liam starts at 3:15 p.m. and finishes at 4:45 p.m. From 3:15 to 4:15 is 60 minutes, plus 30 more minutes to 4:45. Total: $60 + 30 = 90$ minutes. He spends 90 minutes on homework.
- 6) **Choice A is correct.** (NC.4.NBT.1) This angle measures about 70° . When we round to the nearest 10 degrees, it stays at 70° because 70° is right at the mark. The answer is 70 degrees.
- 7) **Choice B is correct.** (NC.4.MD.6) The angle is marked from 0° to 30° , so it contains 30 one-degree angles.
- 8) **Choice D is correct.** (NC.4.OA.1) The longer bar (24 apples) is 4 equal pieces, each one orange-group's size. To find one piece, divide: $24 \div 4 = 6$ oranges.
- 9) **Choice C is correct.** (NC.4.NF.4) The fraction $\frac{7}{9}$ has numerator 7 and denominator 9. This means 7 copies of $\frac{1}{9}$. So the missing denominator is 9.
- 10) **Choice D is correct.** (NC.4.NBT.1) We're rounding to the nearest hundred. Look at the tens digit: 4. Since $4 < 5$, we round DOWN. The hundreds digit stays at 5, giving us 87,500. ✓
- 11) **Choice B is correct.** (NC.4.MD.6) From 12 to 6 on a clock is a half turn (straight across), which is 180° .
- 12) **Choice D is correct.** (NC.4.NBT.6) We use long division: $12 \div 5 = 2$ r2, bring down the 4 to get $24 \div 5 = 4$ r4, then bring down the 5 to get $45 \div 5 = 9$. So 249 is our answer.
- 13) **Choice B is correct.** (NC.4.NF.4) Making 3 batches, each using $\frac{2}{5}$ cup of flour, means we multiply: $3 \times \frac{2}{5} = \frac{6}{5}$ cups.
- 14) **Choice C is correct.** (NC.4.NF.4) Eight twelfths: $8 \times \frac{1}{12} = \frac{8}{12}$.
- 15) **Choice A is correct.** (NC.4.G.2) The purple arrows indicate which sides are parallel. The arrows on the top and bottom sides show they are parallel to each other. The answer is A.
- 16) **The correct answer is A, C.** (NC.4.NF.3) Check A: $2\frac{2}{4} + 2\frac{3}{4} = 4\frac{5}{4}$. Since $\frac{5}{4} = 1\frac{1}{4}$, regroup to get $5\frac{1}{4}$. Correct! Check B: $4\frac{3}{4} + 1 = 5\frac{3}{4}$. No. Check C: $3\frac{1}{4} + 2 = 5\frac{1}{4}$. Correct! Check D and E: They equal different values. So A and C are correct.
- 17) **Choice A is correct.** (NC.4.NF.3) When we convert $\frac{2}{10}$ to hundredths, we multiply both numerator and denominator by 10: $\frac{2 \times 10}{10 \times 10} = \frac{20}{100}$.
- 18) **Choice B is correct.** (NC.4.OA.1) The two folds meet at a point. Combine their angles: $70^\circ + 20^\circ = 90^\circ$.
- 19) **Choice A is correct.** (NC.4.NF.3) When the denominators match, add the numerators! $4 + 5 = 9$, so we get $\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$. ✓
- 20) **The correct answer is 700.** (NC.4.NBT.1) In 4,726, the digit 7 is in the hundreds place. Its value is $7 \times 100 = 700$. ✓
- 21) **Choice D is correct.** (NC.4.OA.3) Two steps! Step 1: add the new cars: $45 + 15 = 60$ cars. Step 2: take away the ones sold: $60 - 20 = 40$ cars left.
- 22) **Choice B is correct.** (NC.4.MD.8) Let us count: $\frac{2}{8}$ cup appears 2 times, $\frac{3}{8}$ cup appears 3 times, and $\frac{4}{8}$ cup appears 1 time. So $\frac{3}{8}$ cup is the most common.
- 23) **Choice A is correct.** (NC.4.NBT.4) Add using the standard algorithm: ones $7 + 5 = 12$ (write 2, carry 1), tens $6 + 4 + 1 = 11$ (write 1, carry 1), hundreds $5 + 3 + 1 = 9$, thousands $4 + 2 = 6$. The sum is 6,912.
- 24) **The correct answer is $\frac{25}{100}$.** (NC.4.NF.3) One dollar contains 100 cents. So 25 cents is $\frac{25}{100}$ of a dollar.
- 25) **Choice C is correct.** (NC.4.NBT.1) Factor pairs of 32: 1×32 , 2×16 , 4×8 . That gives factors 1, 2, 4, 8, 16, 32—count them up: 6 factors.
- 26) **Choice D is correct.** (NC.4.NF.1) The denominator changes from 5 to 20. Divide: $20 \div 5 = 4$. So multiply the numerator by 4: $4 \times 4 = 16$.



Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 4 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

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- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

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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.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Geometry & Measurement
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- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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