

7

North Carolina

EOG

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$

7 North Carolina EOG Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Tar Heel State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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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& answers

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1) Round 31,456 to the nearest hundred.

- A. 31,400 C. 31,450
 B. 31,000 D. 31,500

2) A turn of 120° is what fraction of a complete rotation?

- A. $\frac{1}{4}$ C. $\frac{2}{5}$
 B. $\frac{1}{3}$ D. $\frac{1}{2}$

3) Which bar model shows “15 is 3 times as many as 5”?



- A. Neither model works C. Both are the same
 B. Model B D. Model A
- 4) Which fraction is less than 1?

- A. $\frac{4}{3}$ C. $\frac{7}{10}$
 B. $\frac{9}{8}$ D. $\frac{6}{5}$

5) Find $\frac{5}{7} + \frac{3}{7}$ as a mixed number.



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6) Which is equal to $\frac{6}{10}$?

- A. $\frac{60}{10}$
 B. $\frac{60}{100}$

- C. $\frac{16}{100}$
 D. $\frac{6}{100}$

7) A repeating pattern is: apple, banana, orange, apple, banana, orange. What is the 7th item?

- A. Grape
 B. Banana

- C. Orange
 D. Apple

8) Noah's plant height measurements (in halves of an inch) are: $\frac{1}{2}$, 1, $\frac{1}{2}$, $\frac{3}{2}$, 1, 1, $\frac{3}{2}$. On a line plot, how many X marks appear at 1 inch?

- A. 1
 B. 2

- C. 3
 D. 4

9) Ethan has 3 meters of fabric. How many millimeters is this?

- A. 30
 B. 300

- C. 3,000
 D. 30,000

10) Which numeral represents "two hundred thirty-four thousand, six hundred seventy-eight"?

- A. 243,678
 B. 234,768

- C. 234,687
 D. 234,678

11) Write $2 \times \frac{1}{3}$ as a fraction.

- A. $\frac{1}{6}$
 B. $\frac{2}{3}$

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



- 5) What is $4\frac{1}{6} + 1\frac{4}{6}$?
- A. $5\frac{1}{6}$ C. $5\frac{5}{6}$
 B. $5\frac{4}{6}$ D. $6\frac{1}{6}$
- 6) A four-digit number has 9 in the thousands place and 2 in the tens place. The hundreds and ones digits are unknown. What is the minimum value this number could have?
- A. 9,220 C. 9,002
 B. 9,200 D. 9,020
- 7) A recipe needs 3 cups of milk. How many tablespoons is this? (Hint: 1 cup = 16 tablespoons)
- A. 16 C. 32
 B. 24 D. 48
- 8) A paint can contains $6\frac{2}{3}$ quarts of paint. After painting a room, $2\frac{1}{3}$ quarts are left. How much paint was used?
- A. $4\frac{1}{3}$ C. $8\frac{3}{3}$
 B. $4\frac{3}{3}$ D. $3\frac{2}{3}$
- 9) A camp has 47 campers. They rent cabins that fit 6 campers each. How many cabins do they need to rent?
- A. 7 C. 6
 B. 9 D. 8



1) A pizza was cut into 12 slices. Marcus ate $\frac{3}{12}$ of the pizza and Sofia ate $\frac{4}{12}$. What fraction of the pizza remains?

A. $\frac{7}{12}$

B. $\frac{5}{12}$

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

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

2) What symbol makes this true? 0.38 _____ 0.37

A. $>$

B. $<$

C. $=$

D. Cannot compare

3) Jude had $5\frac{4}{8}$ pounds of berries. He ate $2\frac{5}{8}$ pounds. How many pounds of berries does he have left?

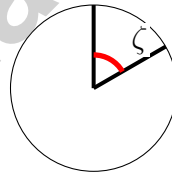
A. $2\frac{6}{8}$ pounds

B. $3\frac{1}{8}$ pounds

C. $2\frac{7}{8}$ pounds

D. $3\frac{2}{8}$ pounds

4)



What is the measure of angle ζ ?

A. 30°

B. 45°

C. 60°

D. 75°



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5) Order from greatest to least: $\frac{2}{4}$, $\frac{3}{6}$, $\frac{5}{10}$.

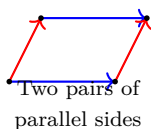
A. All are equal

B. $\frac{2}{4} > \frac{3}{6} > \frac{5}{10}$

C. $\frac{5}{10} > \frac{3}{6} > \frac{2}{4}$

D. $\frac{3}{6} > \frac{2}{4} > \frac{5}{10}$

6) Which shape always has two pairs of parallel sides?



A. Trapezoid

B. Triangle

C. Parallelogram

D. Pentagon

7) In the number 352,679, what is the value of the digit in the ten-thousands place?

A. 5

B. 5,000

C. 50,000

D. 500,000

8) Which fraction is equivalent to $\frac{1}{5}$ and has a denominator of 10?

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

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

C. $\frac{3}{10}$

D. $\frac{2}{10}$

9) Write $\frac{6}{10}$ as a decimal.

A. 0.06

B. 0.6

C. 6.0

D. 60.0



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

- Choice D is correct.** (NC.4.NBT.1) We're rounding to the nearest hundred. Look at the tens digit: 5. Since $5 \geq 5$, we round UP! The hundreds digit changes from 4 to 5, giving us **31,500**. ✓
- Choice B is correct.** (NC.4.MD.6) Divide the degrees by 360: $\frac{120}{360} = \frac{1}{3}$ (simplifying by 120). Answer: $\frac{1}{3}$.
- Choice D is correct.** (NC.4.OA.1) "3 times as many" means we need exactly 3 equal groups. Model A shows 3 groups—so it matches the comparison. Model B shows only 2 groups, so it would represent "2 times as many," not 3.
- Choice C is correct.** (NC.4.NF.1) A fraction is less than 1 when the numerator is less than the denominator. In $\frac{7}{10}$, $7 < 10$ ✓. The other three have numerators bigger than denominators.
- The correct answer is $1\frac{1}{7}$.** (NC.4.NF.3) Add the fractions: $\frac{5}{7} + \frac{3}{7} = \frac{8}{7}$. Convert to a mixed number: $1\frac{1}{7}$.
- Choice B is correct.** (NC.4.NF.3) To convert $\frac{6}{10}$, multiply numerator and denominator by 10: $\frac{6}{10} = \frac{6 \times 10}{10 \times 10} = \frac{60}{100}$.
- Choice D is correct.** (NC.4.NBT.1) The pattern repeats every 3 items, like a wheel turning around. To find position 7, divide: $7 \div 3 = 2$ remainder 1. The remainder 1 tells us we land on the *1st item in the cycle*, which is **apple**. *Quick check:* positions 1, 4, 7 all land on apple. ✓
- Choice C is correct.** (NC.4.MD.8) Count the measurements of 1 inch (which is $\frac{2}{2}$ inch). They appear **3** times in our data.
- Choice C is correct.** (NC.4.MD.2) Since 1 meter = 1,000 millimeters, multiply: $3 \times 1,000 = 3,000$ mm. The answer is **3,000** mm.
- Choice D is correct.** (NC.4.NBT.7) Thousands: 234, ones: 678. Combined: $234,000 + 678 = 234,678$ ✓
- Choice B is correct.** (NC.4.NF.4) To write $2 \times \frac{1}{3}$ as a fraction, count the copies: we have 2 copies of $\frac{1}{3}$. So the fraction is $\frac{2}{3}$.
- Choice B is correct.** (NC.4.MD.3) The perimeter of the poster is $P = 2(11) + 2(8) = 22 + 16 = 38$ in.
- Choice C is correct.** (NC.4.OA.1) When pie slices are combined, their angles add up: $40^\circ + 60^\circ = 100^\circ$.
- Choice B is correct.** (NC.4.MD.6) The angle marked from 0° to 75° contains **75** one-degree angles.
- Choice A is correct.** (NC.4.NBT.4) Add: $2,345 + 7,654 = 9,999$. The digits complement each other perfectly!
- The correct answer is A, B.** (NC.4.NBT.5) Check each option. A: $(20 \times 17) + (6 \times 17) = 340 + 102 = 442$ checkmark. B: $(26 \times 10) + (26 \times 7) = 260 + 182 = 442$ checkmark. C, D, E don't equal 442.
- Choice A is correct.** (NC.4.NF.3) Noah ate a total of $\frac{5}{8}$. Option A splits it into $\frac{2}{8}$ and $\frac{3}{8}$: $2 + 3 = 5$ ✓.
- Choice C is correct.** (NC.4.G.2) A rhombus has four equal sides and two pairs of parallel sides but does not have right angles. These attributes match the shape described in the problem. The answer is **C**.
- Choice B is correct.** (NC.4.G.3) The letter *T* has a horizontal bar across the top and a vertical stem down the middle. The vertical dashed line splits it perfectly so the left and right halves match. The answer is Yes, this is a line of symmetry.
- Choice A is correct.** (NC.4.NF.1) Ribbon 1: $\frac{1}{2}$ painted. Ribbon 2: $\frac{2}{4}$ painted—simplify to $\frac{2}{4} = \frac{1}{2}$. Same amount painted on both!
- The correct answer is 14.** (NC.4.OA.1) Quinn's group has 2 rows of 7 bookmarks—"2 times as many." Multiply: $2 \times 7 = 14$ bookmarks.
- Choice B is correct.** (NC.4.NF.3) Since $\frac{2}{6} < \frac{5}{6}$, regroup: $3\frac{2}{6} = 2\frac{8}{6}$. Subtract: $2\frac{8}{6} - 1\frac{5}{6} = 1\frac{3}{6}$ pizzas.
- Choice D is correct.** (NC.4.NBT.1) To check, divide: $36 \div 9 = 4$ exactly (no remainder). Since $9 \times 4 = 36$, yes—36 is a multiple of 9.
- Choice A is correct.** (NC.4.NF.4) The bar shows that one ribbon is $\frac{3}{4}$ yard. With 2 ribbons like this, we get $2 \times \frac{3}{4} = \frac{6}{4} = 1\frac{1}{2}$ yards.
- The correct answer is 45.** (NC.4.G.1) Subtract to find how much less: $90 - 45 = 45$.
- Choice A is correct.** (NC.4.MD.2) Diego's pencil is 24 cm and Ava's is 19 cm. Find the difference by subtracting: $24 - 19 = 5$ cm. The difference is **5** centimeters.
- Choice A is correct.** (NC.4.NBT.1) A protractor is the special tool we use to measure angles in whole-number degrees. The ruler measures length and the compass draws circles, but only the protractor shows us how many degrees are in an angle.



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Inventor's Workshop Note

Hi, Math Inventor!

◇ 7 practice tests. 7 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



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

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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.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ And More!



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Answer Key Included