

5

North Carolina EOG

Standards-Aligned Review with
Mixed Practice and Answer Key



5 North Carolina EOG Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five 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.

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Welcome, North Carolina Math Explorer!

Five steady rounds on the Tar Heel State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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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5) A garden has 20 tomato plants and 15 pepper plants. Then 5 plants die. The remaining plants are each expected to grow 12 fruits. How many total fruits are expected?

- A. 300 C. 480
 B. 420 D. 360

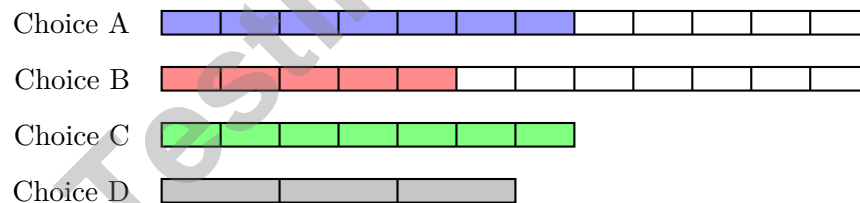
6) Noah wants to carpet his bedroom floor. The room is a rectangle that is 14 feet long and 10 feet wide. How many square feet of carpet does he need?

- A. 24 sq ft C. 140 sq ft
 B. 48 sq ft D. 280 sq ft

7) Kai is at a lemonade stand. Pitcher A holds 0.75 liters. Pitcher B holds 0.57 liters. Which pitcher holds more lemonade?

- A. Pitcher A (0.75 L) C. Both hold the same amount
 B. Pitcher B (0.57 L) D. Pitcher B holds twice as much

8) Which fraction bar correctly shows $\frac{7}{12}$?



- A. 7 shaded out of 12 C. 7 shaded out of 7
 B. 5 shaded out of 12 D. 3 shaded out of 3



1) How many factor pairs does 35 have?

2) Using partial quotients to divide $1,632 \div 4$, which step correctly shows the next quotient?

$$1,632 \div 4:$$

$$\text{Step 1: } 1,632 - (4 \times 400) = 32$$

$$\text{Step 2: } 32 \div 4 = 8$$

$$\text{Step 3: } 400 + 8 = ?$$



Quotient: ?

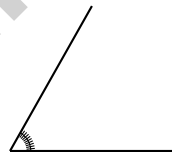
A. The quotient is 500

C. The quotient is 380

B. The quotient is 492

D. The quotient is 408

3)



The angle spans 60° . How many one-degree angles make this angle?

A. 60°

C. 60 one-degree angles

B. 30 one-degree angles

D. 120 one-degree angles



4) Complete the conversion table.

Feet	Inches
2	?
5	?
7	?

If 2 feet = ? inches and 1 foot = 12 inches, what is the correct value?

- A. 12 inches C. 36 inches
 B. 24 inches D. 48 inches

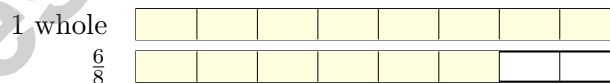
5) Which is true?

- A. $\frac{8}{10} > \frac{90}{100}$ C. $\frac{8}{10} < \frac{50}{100}$
 B. $\frac{8}{10} = \frac{80}{100}$ D. $\frac{8}{10} = \frac{8}{100}$

6) A room is 15 feet long and 12 feet wide. What is the area of the floor?

- A. 27 sq ft C. 180 sq ft
 B. 54 sq ft D. 120 sq ft

7) A board is $\frac{14}{8}$ inches long. Decompose this as a mixed number:

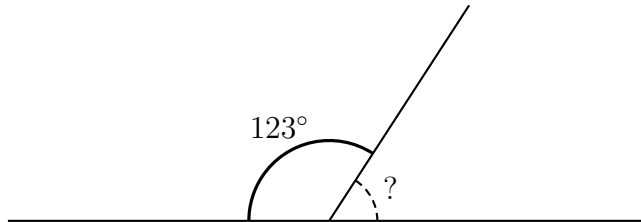


- A. $1\frac{6}{8} = \frac{8}{8} + \frac{6}{8}$ C. $1\frac{3}{8} = \frac{8}{8} + \frac{3}{8}$
 B. $2\frac{1}{8} = \frac{16}{8} + \frac{1}{8}$ D. $1\frac{5}{8}$ inches



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- 1) A straight line is marked at a point. On one side of the point, an angle measures 123° . What is the measure of the angle on the other side of the point?



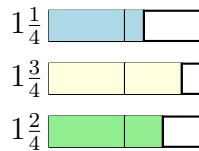
- A. 123° C. 180°
 B. 57° D. 90°
- 2) Solve: $\frac{1}{3} + \frac{2}{3} = ?$
- A. $\frac{3}{6}$ C. $\frac{3}{3}$ or 1
 B. $\frac{1}{3}$ D. $\frac{2}{6}$
- 3) Zoe drinks $\frac{2}{5}$ liter each day for 5 days. How many liters total?

- 4) Noah bought $\frac{8}{10}$ pound of strawberries and $\frac{15}{100}$ pound of blueberries. How many pounds of berries did he buy in total?
- A. $\frac{23}{110}$ pound C. $\frac{95}{100}$ pound
 B. $\frac{8}{15}$ pound D. $\frac{23}{100}$ pound



5) Maya has a ribbon 11 inches long cut into 11 equal pieces. She uses 6 pieces. What fraction of the ribbon does she use as a sum of unit fractions?

- A. 6 copies of $\frac{1}{11}$
 C. 6 copies of $\frac{1}{6}$
 B. 11 copies of $\frac{1}{11}$
 D. 5 copies of $\frac{1}{11}$



6)

Add the three mixed numbers shown: $1\frac{1}{4} + 1\frac{3}{4} + 1\frac{2}{4}$.

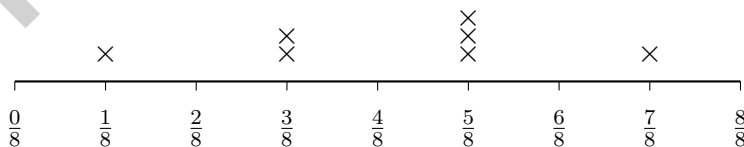
- A. $3\frac{2}{4}$
 C. $4\frac{1}{4}$
 B. $4\frac{2}{4}$
 D. $4\frac{6}{4}$

7) Use the number line to find which inequality is correct.



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

8) Here is a line plot with eighths:



What is the sum of all measurements shown on this line plot?

- A. $\frac{24}{8}$
 C. $\frac{26}{8}$
 B. $\frac{25}{8}$
 D. $\frac{29}{8}$



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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.7) “Seventy-eight thousand” = 78,000, so the full number is 78,412. The digit 8 is in the thousands place ✓
- 2) **The correct answer is 2,700.** (NC.4.NBT.1) Original: 4,723. After swapping 4 and 7: 7,423. Increase: $7,423 - 4,723 = 2,700$. ✓
- 3) **Choice B is correct.** (NC.4.NF.3) Starting at 0, the first hop goes right by $\frac{3}{4}$. The second hop adds $\frac{1}{4}$ more, landing exactly at 1. That’s $\frac{3}{4} + \frac{1}{4} = 1$.
- 4) **Choice C is correct.** (NC.4.MD.2) Sophia reads 15 minutes in the morning and 20 minutes in the evening. Add: $15 + 20 = 35$ minutes. She reads **35** minutes each day.
- 5) **Choice D is correct.** (NC.4.OA.3) Three steps! Step 1: total plants: $20 + 15 = 35$. Step 2: subtract the dead plants: $35 - 5 = 30$ plants. Step 3: multiply by fruit per plant: $30 \times 12 = 360$ fruits expected.
- 6) **Choice C is correct.** (NC.4.MD.3) Carpet needed = $14 \times 10 = 140$ sq ft.
- 7) **Choice A is correct.** (NC.4.NF.3) Compare the tenths place: $7 > 5$, so $0.75 > 0.57$. Pitcher A holds more lemonade.
- 8) **Choice A is correct.** (NC.4.NF.3) The fraction bar shows 12 equal parts with 7 shaded, which is $\frac{7}{12}$. This is $\underbrace{\frac{1}{12} + \frac{1}{12} + \dots + \frac{1}{12}}_{7 \text{ unit fractions}}$.
- 9) **Choice D is correct.** (NC.4.MD.2) Since 1 foot = 12 inches, multiply: $4 \times 12 = 48$ inches. The answer is **48** inches.
- 10) **Choice B is correct.** (NC.4.G.3) An isosceles trapezoid has two equal slanted legs and a vertical line of symmetry straight down the middle. This divides it so both sides match perfectly. The answer is **1** line of symmetry.
- 11) **Choice A is correct.** (NC.4.MD.8) Count each length: $\frac{1}{2}$ in appears 3 times (the most!), 1 in appears 2 times, and $\frac{3}{2}$ in appears 1 time. So $\frac{1}{2}$ in has the most X marks.
- 12) **Choice A is correct.** (NC.4.NF.4) When we multiply a whole number by a unit fraction, we get that many copies of the unit fraction. So $5 \times \frac{1}{12}$ means 5 copies of $\frac{1}{12}$, which is $\frac{5}{12}$.
- 13) **Choice D is correct.** (NC.4.NBT.4) Subtract column by column, regrouping as needed. Starting from the ones: we need to regroup the tens and higher places to complete the subtraction. The answer is **4,775**.
- 14) **Choice A is correct.** (NC.4.NBT.6) Long division: $2 \div 2 = 1$, bring down the 1 to get $1 \div 2 = 0$ r1, bring down the 5 to get $15 \div 2 = 7$ r1, bring down the 6 to get $16 \div 2 = 8$. The quotient is **1,078**.
- 15) **The correct answer is A, C.** (NC.4.OA.1) “4 times as many” means $4 \times 8 = 32$ pins—that’s choice A. The equation in C, $x = 4 \times 8$, captures the same idea. Choice B (12) is wrong (likely from $8 + 4$); D incorrectly says 2 times instead of 4; and E uses addition, not multiplication.
- 16) **Choice A is correct.** (NC.4.NBT.1) The angle opens toward the right, so use the scale that starts at 0° on the right side—that’s the outer scale. Read the degree measure where the second ray crosses that scale. The answer is **65** degrees.
- 17) **Choice B is correct.** (NC.4.MD.6) The blue label marks the vertex—the point where the two sides (rays) meet.
- 18) **The correct answer is $\frac{17}{6}$.** (NC.4.NF.3) Two wholes need $2 \times 6 = 12$ sixths. Add the $\frac{5}{6}$ part: $12 + 5 = 17$, so $2\frac{5}{6} = \frac{17}{6}$. ✓
- 19) **Choice B is correct.** (NC.4.NF.1) All four fractions have numerator 1. Bigger denominators = smaller pieces. So fifths are smaller than thirds: $\frac{1}{5} < \frac{1}{3}$.
- 20) **Choice B is correct.** (NC.4.NF.4) Each bottle holds $\frac{3}{8}$ liter, and there are 4 bottles. Multiply: $4 \times \frac{3}{8} = \frac{4 \times 3}{8} = \frac{12}{8} = 1\frac{1}{2}$ liters. The answer is **$1\frac{1}{2}$** liters.
- 21) **Choice A is correct.** (NC.4.NBT.5) Split both: $24 = 20 + 4$ and $19 = 10 + 9$. This creates four areas: $20 \times 10 = 200$, $4 \times 10 = 40$, $20 \times 9 = 180$, $4 \times 9 = 36$. Choice A is correct.
- 22) **Choice B is correct.** (NC.4.NF.4) Seven juice boxes, each holding $\frac{1}{3}$ liter, contain $7 \times \frac{1}{3} = \frac{7}{3}$ liters total.
- 23) **Choice B is correct.** (NC.4.NF.3) Add the wholes: $2 + 1 = 3$. Add the fractions: $\frac{5}{8} + \frac{3}{8} = \frac{8}{8} = 1$. Combine into a whole: $3 + 1 = 4$.
- 24) **The correct answer is 65.** (NC.4.MD.6) An angle turning through 65 one-degree angles has a measure of **65°** .



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Hi, Strong Climber!

◇ You climbed all 5 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

Guide's tip: on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

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

Jay Daie

Your Math Trail Guide

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

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

PERFECT FOR:

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

★ 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.



Test Confidence

Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



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 & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included

A+