

3

North Carolina

EOG

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED

$$a^2 + b^2 = c^2$$

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



3 North Carolina EOG Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, North Carolina EOG strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome, North Carolina Math Explorer!

Three steady rounds on the Tar Heel State math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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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1) A rectangular yard is 20 feet long and 15 feet wide. How much fencing is needed to go around it?

A. 35 ft

C. 300 ft

B. 70 ft

D. 140 ft

2) $\frac{8}{12} = \frac{5}{12} + \underline{\hspace{1cm}}$. The missing fraction is:

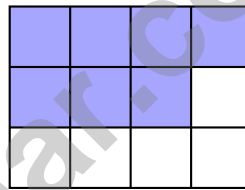
A. $\frac{1}{12}$

C. $\frac{3}{12}$

B. $\frac{2}{12}$

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

3) A grid is divided into 12 equal squares. 7 squares are filled. Show this as a sum of unit fractions.



7 of 12 squares filled

A. 7 copies of $\frac{1}{12}$

C. 7 copies of $\frac{1}{7}$

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

D. 1 copy of $\frac{7}{12}$

4) How many tenths equal $\frac{20}{100}$?

A. 2 tenths

C. 200 tenths

B. 20 tenths

D. 0.2 tenths



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5) Which pattern shows all multiples of 6?

A. 2, 4, 6, 8, 10

C. 3, 6, 9, 12, 15

B. 6, 12, 18, 24, 30

D. 5, 10, 15, 20, 25

6) How many degrees in $\frac{2}{3}$ of a full turn around a circle?

A. 180°

C. 240°

B. 200°

D. 270°

7) A flower bed had $\frac{8}{12}$ of its space planted with roses. $\frac{3}{12}$ of the space was planted with tulips. How much of the flower bed was planted with roses or tulips?

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

C. $\frac{11}{24}$

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

D. $\frac{10}{12}$

8) Write 0.7 as an equivalent decimal in hundredths.

9) Mia has the digit 8 in the hundreds place of a four-digit number. If she moves this digit to the thousands place, the value of this digit increases by how much?

A. 800

C. 8,000

B. 200

D. 7,200



1) Find $4,368 \div 8$.

2) A delivery truck carries 25 boxes. Each box weighs 8 pounds. What is the total weight in ounces?

- A. 200 ounces C. 3,200 ounces
 B. 800 ounces D. 6,400 ounces

3) A garden bed requires $\frac{2}{3}$ bag of soil. How many bags are needed for 6 garden beds?

- A. $\frac{6}{3}$ bags (or 2 bags) C. $\frac{12}{3}$ bags (or 4 bags)
 B. $\frac{2}{18}$ bag D. $\frac{6}{9}$ bag

4) Mia had $\frac{9}{10}$ gallon of paint and used $\frac{4}{10}$. How much is left?

5) An angle is formed wherever two rays share a common:

- A. line C. segment
 B. endpoint D. circle

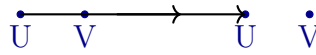


6) Which diagram correctly shows Ray UV ?

A.



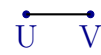
B.



C.



D.



- A. Diagram A
- B. Diagram B

- C. Diagram C
- D. Diagram D

7) A basketball game starts at 6:00 p.m. and ends at 8:30 p.m. How long is the game?

Start	End
6:00 p.m.	8:30 p.m.

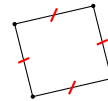
- A. 1 hour
- B. 2 hours

- C. 2 hours 30 minutes
- D. 3 hours

8) Which attribute is shared by both a square and a rhombus?



Square



Rhombus

- A. All sides are equal
- B. All angles are right angles

- C. No parallel sides
- D. Only three sides

9) Which number does NOT belong in this pattern? 12, 24, 36, 50, 60

- A. 12
- B. 36

- C. 50
- D. 60



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1) What is $8\frac{3}{4} - 5\frac{1}{4}$?

A. $2\frac{2}{4}$

B. $3\frac{1}{4}$

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

D. $4\frac{1}{4}$

2) A sports team has 96 uniforms. They divide them equally among 6 teams. Then each team donates 5 uniforms to a new club. How many uniforms does each team have left?

A. 10

B. 16

C. 21

D. 11

3) Sam read 234 pages of a book on Monday. On Tuesday, he read 189 more pages. How many pages did he read in total?

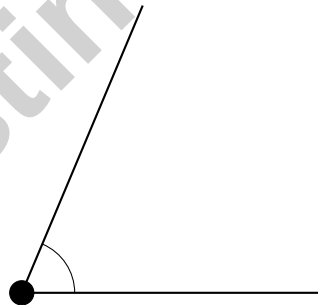
A. 423 pages

B. 413 pages

C. 424 pages

D. 333 pages

4)



This angle is smaller than a right angle. What type of angle is it?

A. Acute

B. Obtuse

C. Right

D. A straight angle



5) What are all the factors of 12?

A. 1, 3, 5, 7, 12

C. 2, 3, 4, 6, 12

B. 1, 2, 4, 6, 12

D. 1, 2, 3, 4, 6, 12

6) A rope is 48 inches long. If it is cut into 6 equal pieces, how long is each piece?

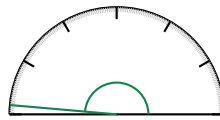
A. 6 inches

C. 42 inches

B. 8 inches

D. 54 inches

7)



What is the measure of this angle very close to a straight line?

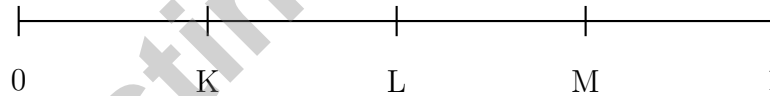
A. 180 degrees

C. 5 degrees

B. 175 degrees

D. 170 degrees

8) Where is 0.55 located on this number line?



A. At K

C. At L

B. Between K and L

D. Between L and M

9) Which fraction equals $\frac{50}{100}$?

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

C. $\frac{50}{10}$

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

D. $\frac{10}{100}$



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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 B is correct.** (NC.4.MD.3) Yard perimeter = $2(20) + 2(15) = 40 + 30 = 70$ ft.
- 2) **Choice C is correct.** (NC.4.NF.3) We have $\frac{5}{12}$ and need to reach $\frac{8}{12}$. Missing: $8 - 5 = 3$, so the answer is $\frac{3}{12}$ ✓.
- 3) **Choice A is correct.** (NC.4.NF.3) The grid has 12 equal squares, and 7 are filled. So the fraction is $\frac{7}{12}$, which is 7 copies of $\frac{1}{12}$.
- 4) **Choice A is correct.** (NC.4.NF.3) When we simplify, $\frac{20}{100} = \frac{2}{10}$, which equals 2 tenths.
- 5) **Choice B is correct.** (NC.4.NBT.1) Multiples of 6 are: 6, 12, 18, 24, 30, ... Check choice B: $6 \div 6 = 1$, $12 \div 6 = 2$. All divide evenly. ✓
- 6) **Choice C is correct.** (NC.4.MD.6) Two-thirds of the circle is $\frac{2}{3} \times 360^\circ = 240^\circ$.
- 7) **Choice B is correct.** (NC.4.NF.3) The flower bed has two types of flowers. Add the parts with like denominators: $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$ of the flower bed was planted.
- 8) **The correct answer is 0.70.** (NC.4.NF.3) A trailing zero doesn't change the value. Both 0.7 and 0.70 equal the same amount.
- 9) **Choice D is correct.** (NC.4.NBT.1) The digit 8 in the hundreds place is worth 800. Moved to the thousands place, it's worth 8,000. The increase is $8,000 - 800 = 7,200$. ✓
- 10) **Choice B is correct.** (NC.4.MD.8) At $\frac{1}{2}$ inch there is 1 X mark. At $\frac{3}{2}$ inches there are 3 X marks. The difference is $3 - 1 = 2$.
- 11) **Choice D is correct.** (NC.4.NBT.1) We're rounding to the nearest hundred. Look at the tens digit: 6. Since $6 \geq 5$, we round UP! The hundreds digit goes from 2 to 3, giving us **3,300**. ✓
- 12) **Choice D is correct.** (NC.4.OA.3) $156 \div 24 = 6$ remainder 12. Six buses fit 144 students, but 12 students still need a ride—so we round up: $6 + 1 = 7$ buses.
- 13) **Choice D is correct.** (NC.4.OA.1) Compare the bars by dividing the longer by the shorter: $12 \div 3 = 4$. So Bar B is 4 times as long as Bar A.
- 14) **Choice C is correct.** (NC.4.NF.3) Add the numerators: $2 + 3 = 5$. The result is $\frac{5}{5}$, which is exactly 1 whole.
- 15) **The correct answer is A, C.** (NC.4.NBT.4) A: $5,234 + 2,345 = 7,579$ ✓. B: $6,789 + 2,456 = 9,245$ (wrong). C: $8,123 + 1,234 = 9,357$ ✓. D: $9,000 + 3,456 = 12,456$ (wrong). E: $4,567 + 3,456 = 8,023$ (wrong). Correct answers: A and C.
- 16) **Choice C is correct.** (NC.4.OA.1) When you split an angle into smaller parts, add them to find the whole: $30^\circ + 45^\circ = 75^\circ$.
- 17) **Choice C is correct.** (NC.4.NBT.7) From right to left: ones, then tens. In 7,846, the tens digit is 4 ✓
- 18) **Choice B is correct.** (NC.4.MD.6) Ava's angle measures 100° , which means it contains **100** one-degree angles.
- 19) **Choice A is correct.** (NC.4.NBT.6) Divide: $20 \div 9 = 2$ r2, bring down the 1 to get $21 \div 9 = 2$ r3, bring down the 6 to get $36 \div 9 = 4$. Each box holds **224** action figures.
- 20) **Choice D is correct.** (NC.4.G.3) A regular pentagon with 5 equal sides has five lines of symmetry. Each line passes through one corner (vertex) and the middle of the opposite side. The answer is **5** lines of symmetry.
- 21) **Choice C is correct.** (NC.4.NF.3) The place-value chart shows: ones place = 0, tenths place = 7, hundredths place = 5. Put it together: 0.75.
- 22) **The correct answer is $2\frac{3}{6}$.** (NC.4.NF.3) Since $\frac{2}{6} < \frac{5}{6}$, regroup: $4\frac{2}{6} = 3\frac{8}{6}$. Subtract the wholes: $3 - 1 = 2$. Subtract the fractions: $\frac{8}{6} - \frac{5}{6} = \frac{3}{6}$. The answer is $2\frac{3}{6}$.
- 23) **Choice D is correct.** (NC.4.NF.4) We take 7 copies of $\frac{1}{5}$. Multiply: $7 \times \frac{1}{5} = \frac{7 \times 1}{5} = \frac{7}{5} = 1\frac{2}{5}$. The answer is $1\frac{2}{5}$.
- 24) **Choice A is correct.** (NC.4.MD.2) Mia weighs 42 pounds and her dog weighs 18 pounds. Subtract to compare: $42 - 18 = 24$ pounds. Mia weighs **24** pounds more.
- 25) **Choice C is correct.** (NC.4.NBT.5) Check each product: A: 280, B: 400, C: $18 \times 20 = 360$, D: 480. Only 360 is between 300 and 400.
- 26) **Choice C is correct.** (NC.4.NF.4) We multiply the whole number by the fraction. Ava has 5 necklaces, each with $\frac{2}{3}$ meter of beads: $5 \times \frac{2}{3} = \frac{10}{3}$ meters, which is $3\frac{1}{3}$ meters.



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Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 3 tests is like 3 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

PRACTICE TODAY. SUCCEED TOMORROW!

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

With 3 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:

- ✓ 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.



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
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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