

6 North Carolina EOG

GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 North Carolina EOG Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six 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!

Six steady rounds on the Tar Heel State math route

This book gives you six 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?

Six tests, 180 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 4–6	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.

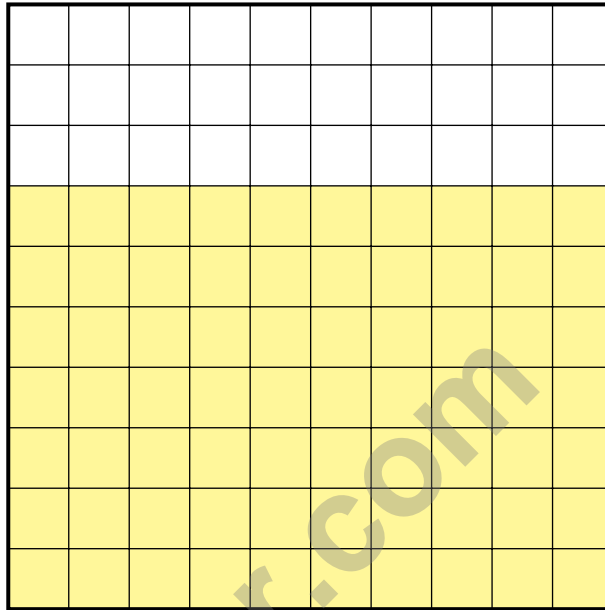


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1) Decimal grids show place value. Which decimal matches the shaded grid?



Shaded: 70 out of 100

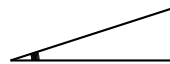
A. 0.07

C. 7.0

B. 0.70

D. 0.77

2)



This angle shows tick marks from 0 to 18 degrees. Write the measure of this angle.



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3) What is 52×15 ?

A. 520

C. 650

B. 830

D. 780

4) How many lines of symmetry does a regular pentagon (5-sided polygon) have?

A. 3

C. 5

B. 4

D. 10

5) Which quadrilateral has four equal sides and four right angles?

A. Rectangle

C. Square

B. Rhombus

D. Trapezoid

6) A bake sale made 1,800 cookies. They filled boxes with 9 cookies in each box. How many full boxes were made?

A. 100

C. 200

B. 150

D. 250

7) Jada has 3 stickers. Her brother has 5 times as many stickers. How many stickers does her brother have?

A. 8

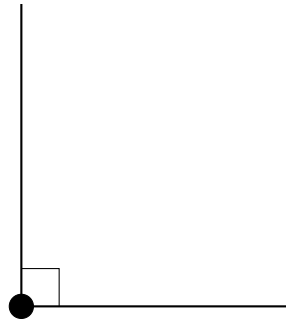
C. 18

B. 35

D. 15



8)



This is a right angle. How many degrees does it measure?

- A. 45 degrees
- C. 180 degrees
- B. 90 degrees
- D. 270 degrees

9) Number line with decimals between two tenths marked.



What decimal is marked?

- A. 0.31
- C. 0.3
- B. 0.13
- D. 0.41

10)



One whole (4 fourths)

The bar shows $\frac{2}{4}$ is shaded. If you have 3 such bars, how much is shaded in total?

- A. $\frac{6}{4}$ (or $1\frac{1}{2}$)
- C. $\frac{3}{4}$
- B. $\frac{2}{12}$
- D. $\frac{5}{4}$



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1) Ethan has \$35 and spends \$12 on a book. How much money does he have left?

A. \$12

C. \$47

B. \$23

D. \$35

2) Which pair of measurements is equivalent?

A. 2 km and 200 m

C. 5 cm and 50 mm

B. 4 m and 4,000 cm

D. 6 m and 600 mm

3) Find $8 \times \frac{2}{3}$ as a mixed number.

4) Which statement correctly matches the equation $42 = 6 \times 7$?

A. 42 is 6 less than 7

C. 42 is 6 times as many as 7

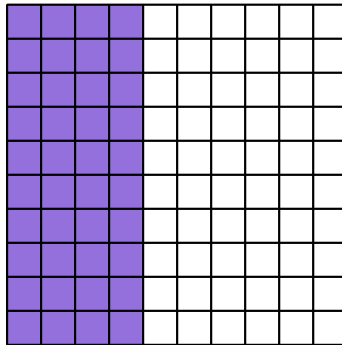
B. 42 is 7 more than 6

D. 42 equals 6 plus 7



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5) Approximately what decimal is represented by the shaded portion?



A. 0.40

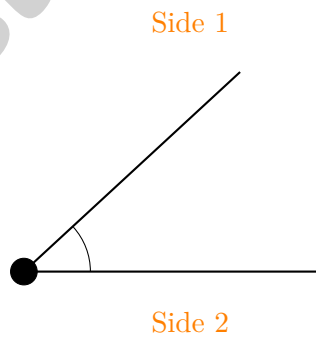
C. 0.44

B. 0.04

D. 0.60

6) A 3 in the hundreds place is worth 300. A 3 in the tens place is worth 30. What is the difference?

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7)

The two orange labels point to the sides of the angle. Each side is:

A. a straight line

C. a segment

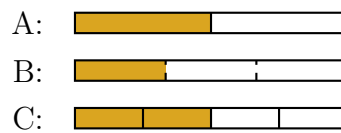
B. a ray

D. a circle

1) At a bakery, a cookie costs \$0.49 and a donut costs \$0.94. Which item costs less?

- A. Cookie (\$0.49)
 C. Both cost the same
 B. Donut (\$0.94)
 D. Cannot tell from prices

2) Which two models show equivalent fractions?

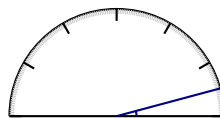


- A. Models A and B
 C. Models B and C
 B. All three
 D. Models A and C

3) Which of the following does **not** have at least one line of symmetry?

- A. Right isosceles triangle
 C. Scalene right triangle
 B. Equilateral triangle
 D. Isosceles trapezoid

4)



What is the measure of this very small acute angle?

- A. 10 degrees
 C. 20 degrees
 B. 15 degrees
 D. 25 degrees



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5) Three hops of $\frac{1}{4}$ land at what fraction?

6) Ava had $\frac{7}{8}$ of a chocolate bar. She gave $\frac{2}{8}$ to her friend. How much does she have left?

- A. $\frac{5}{8}$
 B. $\frac{9}{8}$

- C. $\frac{5}{16}$
 D. $\frac{1}{8}$

7) Which number is NOT divisible by 2?

- A. 24
 B. 36

- C. 49
 D. 50

8) A water bottle holds $\frac{3}{4}$ liter. If you fill 5 bottles, how many liters of water do you have in total?

9) How many $\frac{1}{3}$'s equal $\frac{2}{3}$?

- A. 1
 B. 2

- C. 3
 D. 6



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 B is correct.** (NC.4.NF.3) The grid shows 70 shaded squares out of 100, which is seventy hundredths: $0.70 = 0.7$.
- The correct answer is 18.** (NC.4.MD.6) The angle spans from 0° to 18° , so it measures 18° .
- Choice D is correct.** (NC.4.NBT.5) Break 15 into parts: $52 \times (10 + 5) = 520 + 260 = 780$.
- Choice C is correct.** (NC.4.G.3) A regular pentagon (5 equal sides) has five lines of balance. Each line passes through one corner and the middle of the opposite side. The answer is 5 lines of symmetry.
- Choice C is correct.** (NC.4.G.2) A square combines two key properties: four equal sides (like a rhombus) and four right angles (like a rectangle). This makes a square a special quadrilateral. The answer is C.
- Choice C is correct.** (NC.4.NBT.6) Divide: $18 \div 9 = 2$ and $0 \div 9 = 0$. The bakery made 200 full boxes of cookies.
- Choice D is correct.** (NC.4.OA.1) “5 times as many” is a multiplication signal. Her brother has 5 groups of Jada’s 3 stickers: $5 \times 3 = 15$ stickers.
- Choice B is correct.** (NC.4.MD.6) A right angle always measures 90 degrees.
- Choice A is correct.** (NC.4.NF.3) The number line from 0.30 to 0.35 divides into 5 equal steps. The mark is one step from 0.30, so it lands on 0.31.
- Choice A is correct.** (NC.4.NF.4) With 3 bars and each showing $\frac{2}{4}$ shaded, we have $3 \times \frac{2}{4} = \frac{6}{4} = 1\frac{1}{2}$ shaded in total.
- Choice B is correct.** (NC.4.NF.3) Sam’s ribbon is $\frac{6}{8}$ yard. Cut into two equal pieces means each piece is half: $\frac{6}{8} \div 2 = \frac{3}{8} \checkmark$.
- Choice A is correct.** (NC.4.NF.3) The gardener needs soil but already has some. Find how much more is needed by subtracting what he has from what’s needed: $\frac{6}{4} - \frac{2}{4} = \frac{4}{4}$ more bags of soil are needed.
- Choice C is correct.** (NC.4.OA.1) Each turn is an angle. Add the rotations together: $110^\circ + 40^\circ = 150^\circ$.
- Choice A is correct.** (NC.4.NBT.4) Since we’re subtracting from 9,000, we must regroup across the zeros to subtract in each place. The answer is 4,744.
- Choice C is correct.** (NC.4.NF.4) We take 3 copies of $\frac{1}{4}$. Multiply the whole number by the numerator: $3 \times \frac{1}{4} = \frac{3 \times 1}{4} = \frac{3}{4}$. The answer is $\frac{3}{4}$.
- Choice A is correct.** (NC.4.NBT.1) The vertex is where the two rays meet—this is the pivot point of the angle. To measure accurately, this point must be placed right at the center dot or mark on the protractor. This is how we align everything correctly. The answer is at the center point.
- The correct answer is A, D.** (NC.4.MD.8) Statement A is true: the total X marks is $1 + 2 + 3 + 1 = 7$. Statement D is true: the mode is $\frac{4}{8}$ with 3 X marks (the most). The range is $\frac{5}{8} - \frac{1}{8} = \frac{4}{8}$, so B and C are false. There are only 3 X marks at $\frac{4}{8}$, not 6, so E is false.
- The correct answer is 2.** (NC.4.G.1) A line segment has exactly two endpoints — where it starts and where it ends.
- Choice A is correct.** (NC.4.NF.4) Since the bar is divided into 5 equal pieces, each piece is $\frac{1}{5}$. Ming ate 4 pieces, which equals $4 \times \frac{1}{5} = \frac{4}{5}$ of the bar.
- Choice C is correct.** (NC.4.MD.2) Since 1 tablespoon = 3 teaspoons, multiply: $4 \times 3 = 12$ teaspoons. The answer is 12 teaspoons.
- Choice B is correct.** (NC.4.NF.3) Subtract the wholes: $5 - 1 = 4$. Subtract the fractions: $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$. The amount remaining is $4\frac{2}{4}$ cups.
- Choice D is correct.** (NC.4.NBT.1) Test the small primes: 43 is odd; $4 + 3 = 7$ (not $\div 3$); doesn’t end in 0 or 5; $7 \times 6 = 42$, $7 \times 7 = 49$, no 7. So 43’s only factors are 1 and 43—prime.
- Choice B is correct.** (NC.4.NF.1) Use $\frac{1}{2}$ as a benchmark: $\frac{3}{10} < \frac{1}{2}$ (only 3 out of 10 parts) but $\frac{4}{5} > \frac{1}{2}$ (four fifths is more than half). The benchmark separates them!
- Choice B is correct.** (NC.4.NF.3) 0.5 represents half. The number line goes from 0 to 1, so 0.5 sits exactly in the middle at mark B.
- Choice B is correct.** (NC.4.MD.6) A half turn is $\frac{1}{2}$ of the full circle: $\frac{1}{2} \times 360^\circ = 180^\circ$.



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Hi, Math Detective!

◇ You did such a great job! You finished 6 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

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

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- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

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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.



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
- ✓ And More!



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