

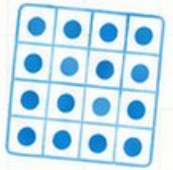
10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



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



North Carolina

EOG



GRADE 4

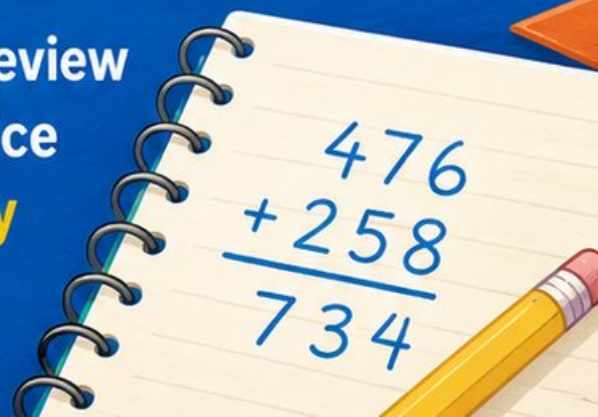


MATH

PRACTICE TESTS

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

$$\begin{array}{r} 476 \\ + 258 \\ \hline 734 \end{array}$$



10 North Carolina EOG Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Tar Heel State math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole North Carolina book.
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.



Scan me!
For more practice
& answers

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1) Diego draws a rectangle with a length of 6 cm and a width of 4 cm. What is the area of his rectangle?

A. 10 sq cm

C. 24 sq cm

B. 20 sq cm

D. 30 sq cm

2) Which shows $\frac{7}{8}$ decomposed correctly?

A. $\frac{4}{8} + \frac{3}{8}$

C. $\frac{6}{8} + \frac{2}{8}$

B. $\frac{5}{8} + \frac{3}{8}$

D. $\frac{3}{8} + \frac{3}{8}$

3) Round 5,196 to the nearest ten.

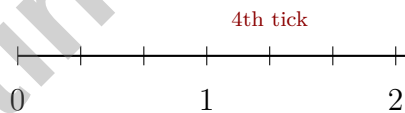
A. 5,190

C. 5,196

B. 5,100

D. 5,200

4) A number line is marked from 0 to 2, with tick marks every $\frac{1}{3}$. Which point is at the 4th tick after 0?



A. $\frac{2}{3}$

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

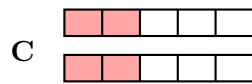
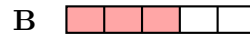
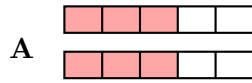
B. $\frac{4}{3}$

D. $\frac{1}{3}$



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5) Which bar model represents $2 \times \frac{3}{5}$?



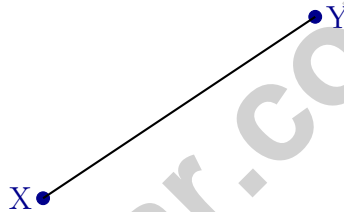
A. Top-left picture

C. Bottom-left picture

B. Top-right picture

D. Bottom-right picture

6) What are the endpoints of this line segment?



A. X and Y

C. Only Y

B. Only X

D. The midpoint

7) Ava is comparing two running times. Her first race was 0.55 seconds and her second race was 0.50 seconds. Which time was faster?

A. 0.55 seconds (first race)

C. Both are the same

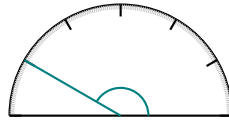
B. 0.50 seconds (second race)

D. Cannot tell from the information



- 8) A park has 5,040 feet of fence to divide equally into 9 sections. How many feet of fence are in each section?

9)



Which angle classification fits the angle shown above?

- A. Acute C. Obtuse
 B. Right D. Straight
- 10) Subtract: $10,000 - 4,567 = ?$



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- 6) A rectangle is 11 meters long and 9 meters wide. What is its area?



- 7) Complete the sequence: 2, 5, 10, 17, __

- A. 24 C. 28
 B. 30 D. 26

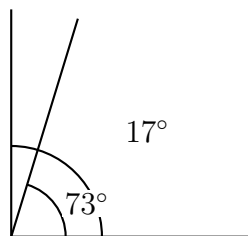
- 8) Round 23,562 to the nearest thousand.

- A. 23,000 C. 23,600
 B. 20,000 D. 24,000

- 9) A trapezoid with a vertical line of symmetry has what other special property?

- A. Both legs are equal length D. It has two parallel sides of different lengths
 B. All four sides are equal
 C. It is a rectangle

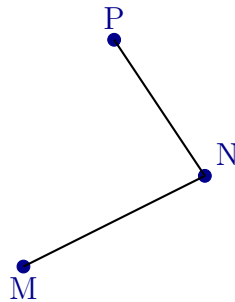
- 10) A door opens 73° . Then it opens another 17° wider. What is the total angle the door has opened?



- A. 56° C. 73°
 B. 90° D. 100°



1) Which points are the endpoints of segment MN in this diagram?



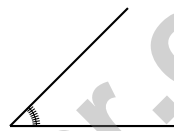
A. M and N

B. N and P

C. M and P

D. All three points

2)



This angle shows tick marks from 0 to 45. What is the measure?

A. 44°

B. 45°

C. 46°

D. 90°

3) A pet store has 14 hamsters. Another pet store has 3 times as many hamsters. How many hamsters does the other store have?

A. 17

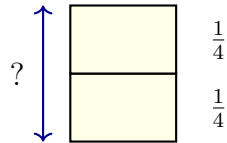
B. 30

C. 56

D. 42



- 4) A stacked bar model shows 2 bars of $\frac{1}{4}$ stacked on top of each other. What is the total height?



- A. $\frac{1}{4}$
 C. $\frac{2}{8}$
 B. $\frac{2}{4}$
 D. $\frac{1}{8}$
- 5) Starting from 12 o'clock, the hour hand on a clock moves 30° in how much time?
- A. 15 minutes
 C. 1 hour
 B. 30 minutes
 D. 2 hours
- 6) Carmen ate $\frac{3}{8}$ of a pizza. Her brother ate $\frac{2}{8}$ of the same pizza. What fraction of the pizza did they eat altogether?
- A. $\frac{1}{8}$
 C. $\frac{6}{8}$
 B. $\frac{5}{8}$
 D. $\frac{5}{16}$
- 7) Which shows a sum greater than 1?
- A. $\frac{5}{8} + \frac{4}{8}$
 C. $\frac{4}{8} + \frac{2}{8}$
 B. $\frac{3}{6} + \frac{2}{6}$
 D. $\frac{5}{10} + \frac{3}{10}$
- 8) Add: $\frac{1}{10} + \frac{45}{100}$.
- A. $\frac{46}{100}$
 C. $\frac{55}{100}$
 B. $\frac{46}{110}$
 D. $\frac{1}{145}$



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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

- Choice C is correct.** (NC.4.MD.3) Multiply length by width: $6 \times 4 = 24$ sq cm.
- Choice A is correct.** (NC.4.NF.3) $\frac{7}{8}$ can split apart. Let's check A: $\frac{4}{8} + \frac{3}{8}$ —add the numerators: $4 + 3 = 7$, so we get $\frac{7}{8}$ ✓. Perfect!
- Choice D is correct.** (NC.4.NBT.1) We're rounding to the nearest ten. Look at the ones digit: 6. Since $6 \geq 5$, we round UP! The tens digit goes from 9 to 10—a rollover! So the answer is **5,200**. ✓
- Choice B is correct.** (NC.4.NF.4) Counting the tick marks: the 4th tick is at $4 \times \frac{1}{3} = \frac{4}{3}$.
- Choice A is correct.** (NC.4.NF.4) For $2 \times \frac{3}{5}$, we need 2 bars, each divided into 5 parts with 3 parts shaded in each bar. Picture A shows exactly this: two bars with $\frac{3}{5}$ shaded in each. The answer is Picture A.
- Choice A is correct.** (NC.4.G.1) Every line segment has exactly two endpoints — the places where it starts and stops. Here that's *X* and *Y*.
- Choice B is correct.** (NC.4.NF.3) Smaller numbers are faster! Since $0.50 < 0.55$, the second race at 0.50 seconds is the faster time.
- The correct answer is 560.** (NC.4.NBT.6) Divide: $50 \div 9 = 5$ r5, bring down the 4 to get $54 \div 9 = 6$, bring down the 0 to get $0 \div 9 = 0$. Each section has **560** feet of fence.
- Choice C is correct.** (NC.4.NBT.1) Obtuse angles are wider than right angles but not quite flat. Since 150° is between 90° and 180° , it fits the obtuse definition perfectly. The answer is obtuse.
- The correct answer is 5,433.** (NC.4.NBT.4) Subtracting from 10,000 chains a regrouping all the way across. Borrow from the ten-thousands ($1 \rightarrow 0$); the three middle zeros become 9s and the ones becomes 10. Now: $10 - 7 = 3$, $9 - 6 = 3$, $9 - 5 = 4$, $9 - 4 = 5$, $0 - 0 = 0$. Result: **5,433**. ✓
- Choice A is correct.** (NC.4.NF.3) The hundredths grid is shaded in a checkered pattern. Count the shaded squares: 25 out of 100 means $\frac{25}{100} = 0.25$.
- Choice D is correct.** (NC.4.OA.1) The longer bar (30 zebras) is made of 3 equal pieces, each one giraffe-group's size. To find one piece, divide: $30 \div 3 = 10$ giraffes.
- Choice A is correct.** (NC.4.NF.3) The rectangle has 6 equal parts, and 4 are colored blue. So $\frac{4}{6}$ is blue, which is $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$ —four unit fractions.
- The correct answer is 645.** (NC.4.NBT.5) Identify the multiplication: 15 rows with 43 plants each. Calculate: $15 \times 43 = 15 \times (40 + 3) = 600 + 45 = \mathbf{645}$ plants.
- The correct answer is A, B.** (NC.4.MD.6) An angle is made of a vertex (the meeting point) and two rays (the sides). A circle, arc, and line are not essential parts of an angle.
- Choice A is correct.** (NC.4.NF.4) All 5 bars, each $\frac{1}{3}$ yard long, have a total length of $5 \times \frac{1}{3} = \frac{5}{3}$ yards.
- Choice C is correct.** (NC.4.NF.1) Both bars show the same shaded length. They represent the same amount: $\frac{5}{10} = \frac{4}{8} = \frac{1}{2}$.
- Choice D is correct.** (NC.4.OA.3) Watch out for extra information! The total of 32 students is not needed for this question—we only need the number of teams. There are 4 teams, and each team earns 5 points, so $4 \times 5 = \mathbf{20}$ bonus points in all. *Tip:* on tests, always ask “does this number help me?” before using it.
- Choice C is correct.** (NC.4.NF.4) Count the shaded parts: 4 parts are shaded. Count the equal parts: 5 total parts. So the shaded fraction is $4 \times \frac{1}{5} = \frac{4}{5}$.
- Choice A is correct.** (NC.4.NF.3) Both friends shared from the same pie, so add the fractions: $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$ of the pie they ate together.
- Choice C is correct.** (NC.4.NBT.1) In 6,217, counting from the right: ones is 7, tens is 1, hundreds is 2, thousands is 6. The tens place contains **1**. ✓
- Choice C is correct.** (NC.4.NBT.1) Count circles: Figure 1 has 3, Figure 2 has 5, Figure 3 has 7. Each time adds 2 circles. So Figure 4 has $7 + 2 = \mathbf{9}$ circles.
- Choice A is correct.** (NC.4.G.3) This square shows all four lines of symmetry: a vertical line down the middle, a horizontal line across the middle, and both diagonal lines corner-to-corner. Each one divides the square into two perfect matching halves! The answer is Yes, all are correct.



Hi, Math Builder!

◇ Through 10 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

Jay Daie

Your Math Builder

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

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