



6

North Carolina

EOG



GRADE 5 MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



$$5^2 = 25$$



6 FULL-LENGTH PRACTICE TESTS
Realistic style questions



STANDARDS-BASED PRACTICE
Covers all Grade 5 Math standards

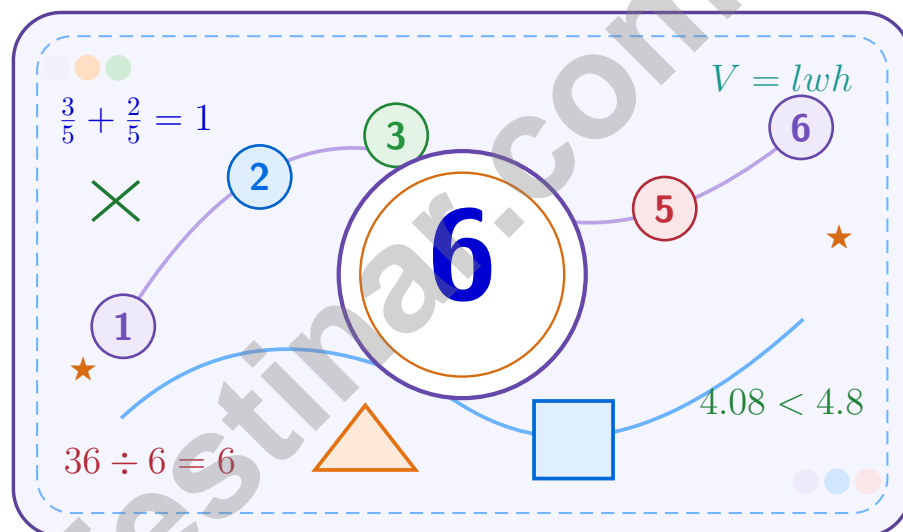


BUILD CONFIDENCE. IMPROVE SCORES.
Target weak areas and achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

6 North Carolina EOG Grade 5 Math Practice Tests

A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

How to Use This Book

A simple practice routine that turns six tests into steady growth

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



Scan me

Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the North Carolina EOG. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



Table of Contents

★ Practice Test 1	_____	13
★ Practice Test 2	_____	30
★ Practice Test 3	_____	45
★ Practice Test 4	_____	59
★ Practice Test 5	_____	75
★ Practice Test 6	_____	88
Practice Test Answer Keys	_____	103
Practice Test Answers and Explanations	_____	107

Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

1 day = 24 hours (hr) 1 year = 52 weeks



1) Subtract: $11 - 4\frac{2}{3}$.

A. 6 wholes

C. 7 wholes

B. $7\frac{1}{3}$

D. $6\frac{1}{3}$

2) Error Check: Juan found the next number in pattern 2, 5, 10, 17, 26 by adding 5. Is this correct?

A. Yes, the pattern is add 5

B. No, the differences increase: add 3, then 5, then 7, then 9

C. No, the pattern multiplies by 2

D. No, the pattern is subtract 1

3)

$$2\frac{3}{5}$$

$$+ 3\frac{1}{5}$$

$$= ?$$

A. $5\frac{1}{5}$

C. 6

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

D. $5\frac{4}{5}$



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1) Evaluate: $150 - 3 \times (20 + 10)$

A. 30

C. 90

B. 60

D. 120

2) A hardware store ordered 7,000 screws. They will pack them equally into 10 boxes. How many screws are in each box?

A. 70,000

C. 70

B. 700

D. 7

3) $720 \div 100 = ?$

A. 0.72

C. 72

B. 7.2

D. 720

4) Without calculating, compare: $(55 + 17) \times 6$ $(55 + 17)$

A. Cannot tell

C. =

B. <

D. >

5) A cereal box has a volume of 180 cubic inches. If the box is 9 inches tall and 5 inches wide, what is its length?

A. 2 inches

C. 6 inches

B. 4 inches

D. 8 inches

6) Starting from $(0, 0)$, you move 4 units right and 5 units up. What ordered pair are you at?

Record your answer in the space provided.



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1) Liam said $1 - \frac{2}{6} = \frac{0}{6}$. Is Liam correct?

A. Correct

B. Wrong; answer is $\frac{4}{6} = \frac{2}{3}$

C. Wrong; answer is $\frac{1}{6}$

D. Wrong; answer is $\frac{3}{6}$

2) A storage box has volume 360 cm^3 , length 12 cm, and height 5 cm. What is the width?

A. 4 cm

B. 5 cm

C. 6 cm

D. 7 cm

3) Each cookie uses 0.15 cup of flour. How much flour is needed for 8 cookies?

A. 1.1 cups

B. 1.5 cups

C. 1.35 cups

D. 1.2 cups

4) Simplify and add: $\frac{2}{8} + \frac{2}{4}$

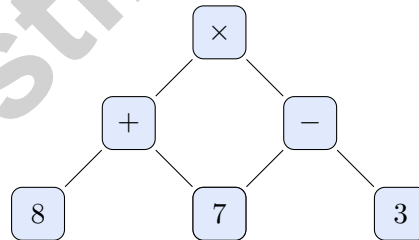
A. $\frac{4}{12}$

B. 1 whole

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

D. $\frac{5}{8}$

5) The expression tree shows how to evaluate the grouped expression $((8 + 2) \times (7 - 3))$. What is the final value?



A. 30

B. 60

C. 50

D. 40



Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (NC.5.NF.1) Write $11 = 10\frac{3}{3}$. Then $10\frac{3}{3} - 4\frac{2}{3} = 6\frac{1}{3}$.
- 2) **Choice B is correct.** (NC.5.OA.3) Differences: $5 - 2 = 3$, $10 - 5 = 5$, $17 - 10 = 7$, $26 - 17 = 9$. Next: $26 + 11 = 37$.
- 3) **Choice D is correct.** (NC.5.NF.1) Add: $2\frac{3}{5} + 3\frac{1}{5} = 5\frac{4}{5}$.
- 4) **Choice A is correct.** (NC.5.NBT.3) 85 out of 100 squares shaded represents $\frac{85}{100} = 0.85$.
- 5) **Choice C is correct.** (NC.5.NF.7) The unit fraction is the amount being shared, so divide $\frac{1}{6}$ by 5. The equation is $\frac{1}{6} \div 5 = n$.
- 6) **The correct answer is 0.55.** (NC.5.NBT.3) Compare as thousandths: 0.600, 0.550, and 0.605. The least is 0.55.
- 7) **Choice B is correct.** (NC.5.NF.1) Longest is $\frac{5}{8}$, shortest is $\frac{1}{4}$. Difference: $\frac{5}{8} - \frac{1}{4} = \frac{5}{8} - \frac{2}{8} = \frac{3}{8}$.
- 8) **Choice B is correct.** (NC.5.OA.2) Use the diagram from left to right. The innermost group gives 6, the middle group gives 18, and the outermost level is $\{18 + 2\} = 20$.
- 9) **Choice D is correct.** (NC.5.NF.1) $\frac{1}{5} = \frac{2}{10}$. $\frac{9}{10} - \frac{2}{10} = \frac{7}{10}$.
- 10) **Choice D is correct.** (NC.5.NF.4) Two jumps of $\frac{2}{3}$ each: $2 \times \frac{2}{3} = \frac{4}{3} = 1\frac{1}{3}$.
- 11) **The correct answer is 96 ft³.** (NC.5.MD.4) $8 \times 3 \times 4 = 96 \text{ ft}^3$.
- 12) **Choice C is correct.** (NC.5.NF.7) Start with one unit fraction, $\frac{1}{3}$, and share it into 3 equal parts. Each part is $\frac{1}{3} \div 3 = \frac{1}{9}$ of the whole.
- 13) **Choice C is correct.** (NC.5.NBT.7) Fastest: 49.5 seconds (Marcus). Slowest: 52.8 seconds (Jasmine). Difference: $52.8 - 49.5 = 3.3$ seconds.
- 14) **Choice B is correct.** (NC.5.G.1) The time values increase by 2, so the next time is 8 seconds. The position values increase by 5, so the next position is 20 meters. The next point is (8, 20).
- 15) **Choice A is correct.** (NC.5.NF.4) $\frac{1}{3} \times 30 = \frac{30}{3} = 10$.
- 16) **Choice A is correct.** (NC.5.NBT.1) $12 \times 10^3 = 12000$. The digit 1 (from 12) moves to the thousands place.
- 17) **Choice C is correct.** (NC.5.NF.1) LCM(3,5) = 15. $\frac{2}{3} = \frac{10}{15}$ and $\frac{3}{5} = \frac{9}{15}$. $\frac{10}{15} + \frac{9}{15} = \frac{19}{15} = 1\frac{4}{15}$.
- 18) **Choices B, C, D are correct.** (NC.5.G.3) A square has four right angles, four equal sides, and two pairs of parallel sides.
- 19) **Choice B is correct.** (NC.5.G.3) Rectangles and rhombuses still have two pairs of parallel sides, so they are parallelograms. Each branch adds an extra property to the larger group.
- 20) **Choice A is correct.** (NC.5.MD.4) $V = B \times h = 16 \times 10 = 160 \text{ cm}^3$.
- 21) **The correct answer is 52.** (NC.5.NBT.6) $16 \times 50 = 800$, leaving 32. $32 \div 16 = 2$. So quotient is $50 + 2 = 52$.
- 22) **Choice D is correct.** (NC.5.NF.7) $7 \div \frac{1}{4} = 7 \times 4 = 28$ pieces.
- 23) **Choice D is correct.** (NC.5.G.1) The first number tells how far to move right, and the second number tells how far to move up. Move 3 right and 1 up to get (3, 1).
- 24) **The correct answer is 2.** (NC.5.MD.4) $30 \div (5 \times 3) = 30 \div 15 = 2$.
- 25) **Choice C is correct.** (NC.5.MD.1) Each foot has 12 inches. $15 \times 12 = 180$, so 15 feet equals 180 inches.
- 26) **Choice B is correct.** (NC.5.NBT.1) The basic fact is $7 \times 8 = 56$. The factors 700 and 80 have three zeros total, so the product is 56,000.
- 27) **The correct answer is > 8 ; $9\frac{1}{3}$.** (NC.5.NF.4) A complete response should explain that $\frac{7}{6} > 1$, so the product is greater than 8. Then compute $\frac{7}{6} \times 8 = \frac{56}{6} = \frac{28}{3} = 9\frac{1}{3}$.
- 28) **Choice A is correct.** (NC.5.NF.4) The factors increase from $\frac{1}{2}$ to 1 to $\frac{3}{2}$, so the products increase: 5, 10, 15.
- 29) **Choice B is correct.** (NC.5.NF.1) $4\frac{1}{10} \approx 4$ and $1\frac{7}{8} \approx 2$. So $4\frac{1}{10} - 1\frac{7}{8} \approx 4 - 2 = 2$.
- 30) **Choice B is correct.** (NC.5.NBT.5) The words “the sum of 7 and 5” mean 7 and 5 must be grouped together as (7 + 5). Then multiply that whole sum by 3.



Greetings, Master Architect!

★ Magnificent construction work! You've designed and completed six comprehensive practice test structures, carefully planning each solution and building solid mathematical foundations like a skilled architect! Every problem required you to visualize the final answer, create a strategic plan, and construct your solution step by step. That structured thinking is your greatest asset! ★

◇ **Here's what master architects know:** before constructing anything magnificent, they create detailed blueprints and study them carefully. You've done exactly that through these six tests! You've blueprinted strategies for every problem type, and now those plans are stored in your architectural library. On test day, you'll simply pull out the right blueprint and build your solution with confidence! ◇

Architectural Achievements Completed

- **Foundation Skills:** Your mathematical base is rock-solid and unshakeable!
- **Structural Planning:** You organize information efficiently before constructing solutions!
- **Quality Control:** You inspect your work carefully, ensuring structural integrity!
- **Design Mastery:** You can visualize solutions and execute plans with precision!

Remember this architectural principle: the strongest buildings have the strongest foundations! Six complete practice tests have given you an incredibly strong foundation. You've reinforced your skills, tested your structures, and proven everything holds firm. Test day is your ribbon-cutting ceremony; time to showcase your masterpiece!

Want to share your architectural designs or discuss a particularly elegant solution structure? Send your blueprints to reza@testinar.com. I admire well-designed mathematical constructions!

Reza Nazari & Jay Daie

Your Math Coaches (Check, Fix, Grow)

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



Visit testinar.com/math5

for more Grade 5 math resources and practice materials!



Testinar

Smart Practice. Stronger Results.