

7

North Carolina

EOG

GRADE 5

MATHEMATICS

PRACTICE TESTS

✓
PRACTICE
PREPARE
SUCCEED

★★★

Comprehensive Standards-Aligned
Review for Strong Grade 5
Math Performance



$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH
PRACTICE TESTS**

Realistic style
questions



**STANDARDS-
ALIGNED**

Covers all Grade 5
standards



BUILD CONFIDENCE

Target weak areas
and improve
performance



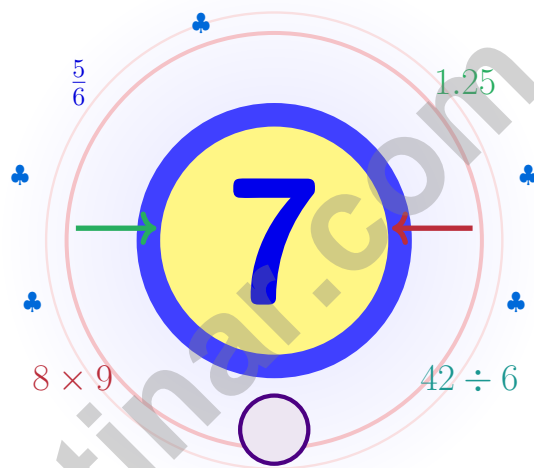
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

7 North Carolina EOG Grade 5 Math Practice Tests

Seven full tests and a coach's voice on every page



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Tar Heel State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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North Carolina Math Crew, Welcome to the Path

Seven steps, seven growth checks, one calm routine

To the Grade 5 Mathematician

This practice book is your steady companion for seven tests, not a place to be perfect. Math practice is like the Outer Banks shoreline – it shifts with every wave, but the careful walker still finds the path.

Use these seven 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 across seven rounds.

Look

Look at the problem like a detective looks at a clue.

Test

Test your idea with one careful step at a time.

Grow

Grow stronger by reviewing exactly what tripped you up.

A strong habit for North Carolina mathematicians: 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.

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How to Get the Most Out

A simple routine that turns practice into progress

Step 1: Read

Read the quick review pages first.
Spend a few minutes waking up your memory before the test begins.

Step 2: Try

Try one full test with full attention.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Reflect

Reflect on which skills want more sunlight.
Circle missed questions and notice which topics keep showing up.

Step 4: Lift

Lift those skills before the next test.
Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week North Carolina Rhythm

Week 1	Take Test 1 like a calm morning on the dunes.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and lift fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 with calm, careful, friendly focus.



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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)

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

WEIGHT AND MASS

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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) What is $\frac{2}{3} \times \frac{1}{4}$?

A. $\frac{2}{7}$

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

C. $\frac{2}{12}$ or $\frac{1}{6}$

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

2) Compare: $(15 + 8) \times 4$ $15 + 8 \times 4$

A. $>$

B. $<$

C. $=$

 D. Cannot tell

3) Find: $10 \div \frac{1}{4}$.

Record your answer in the space provided.

4) Compare: 65×10^2 vs. 650×10 . Which is greater?

A. 65×10^2 is greater

B. 650×10 is greater

C. They are equal

D. Cannot be determined

5) Find the missing digit: $3.4? + 2.15 = 5.67$

A. 1

B. 2

C. 3

D. 4

6) Pattern 1, 10, 100, 1,000, ... is:

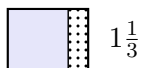
A. Powers of 10

B. Multiples of 10

C. Odd numbers

D. Doubling





7)

Add: $2\frac{2}{3} + 1\frac{1}{3}$

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

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

C. 4

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

8) Evaluate the expression:

$$[2 + (3 \times 4)] \div 7$$

A. 1

B. 2

C. 5

D. 14

9) A family drives 156 miles on day 1 and 144 miles on day 2. How many feet is the total distance traveled?

Use: 1 mile = 5,280 feet

A. 300 feet

B. 158,400 feet

C. 1,584,000 feet

D. 2,471,040 feet

10) A triangle has all angles less than 90 degrees and two sides of equal length. What two terms describe it?

A. Acute and isosceles

B. Acute and scalene

C. Right and isosceles

D. Obtuse and equilateral

11) What is $9.8 \div 10$?

A. 0.98

B. 98

C. 0.098

D. 980



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- 1) Which description identifies a quadrilateral that is not a parallelogram?
- A. A quadrilateral with four right angles C. A quadrilateral with exactly one pair of parallel sides
- B. A quadrilateral with all sides equal D. A figure with five sides
- 2) A package of fabric is 19.75 yards. After cutting a section of 7.48 yards for a project, how much fabric remains?
- A. 12.37 yd C. 11.87 yd
- B. 12.27 yd D. 12.47 yd
- 3) One tenth of a poster is shared equally by 2 students. Which division equation finds each share?
- A. $\frac{1}{10} \div 2 = n$ C. $\frac{1}{10} \times 2 = n$
- B. $2 \div \frac{1}{10} = n$ D. $2 + \frac{1}{10} = n$



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1) A cube has 5 unit cubes along each edge. How many unit cubes are in the cube?

- A. 25 unit cubes C. 15 unit cubes
 B. 125 unit cubes D. 100 unit cubes

2) Find: $9.6 \div 4$.

Record your answer in the space provided.

3) Two gardens are rectangular. Garden A is $\frac{1}{2}$ acre by $\frac{2}{3}$ acre. Garden B is $\frac{3}{4}$ acre by $\frac{1}{2}$ acre. Which garden has more area?

- A. Garden A C. They are equal
 B. Garden B D. Cannot determine

4) A shape is a closed polygon with 5 straight sides and 5 vertices. Which statement correctly describes the shape?

- A. It is a pentagon. C. It must be a rectangle.
 B. It is a quadrilateral. D. It has curved sides.



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1) A strip shows one eighth split into 3 equal parts. Which equation matches the model?

A. $3 \div \frac{1}{8} = ?$

C. $\frac{1}{8} \div 3 = ?$

B. $\frac{1}{8} \times 3 = ?$

D. $3 + \frac{1}{8} = ?$

2) What is $15 \div \frac{1}{3}$?

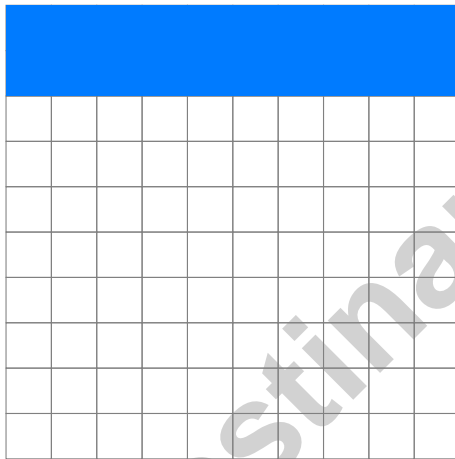
A. 15

C. 45

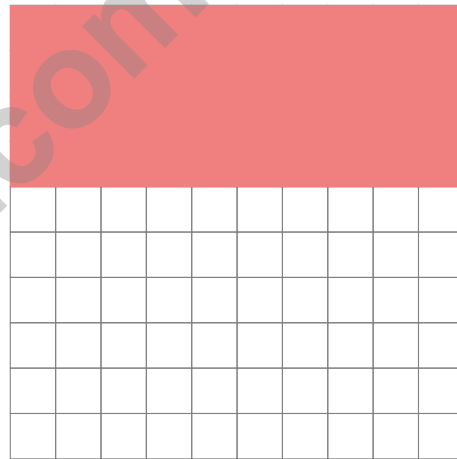
B. 30

D. 60

3) Compare the two 10 by 10 grids. Grid A has 20 squares shaded; Grid B has 40 squares shaded. Which statement is true?



Grid A: $\frac{20}{100}$



Grid B: $\frac{40}{100}$

 A. Both grids show equivalent fractions

 C. Grid A is twice as much as Grid B

 B. Grid A shows $\frac{1}{5}$ and Grid B shows $\frac{2}{5}$
 D. Grid B shows $\frac{1}{5}$ and Grid A shows $\frac{2}{5}$

4) Which sum of fractions with unlike denominators equals 1 whole?

A. $\frac{1}{2} + \frac{1}{3} + \frac{1}{6}$

C. $\frac{1}{3} + \frac{1}{6}$

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

D. $\frac{1}{4} + \frac{1}{3}$



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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (NC.5.NF.4) Multiply the numerators and denominators: $\frac{2}{3} \times \frac{1}{4} = \frac{2}{12}$. Since both 2 and 12 can be divided by 2, the product simplifies to $\frac{1}{6}$.
- 2) **Choice A is correct.** (NC.5.NBT.5) On the left, the whole sum (15 + 8) is multiplied by 4. On the right, only the 8 is multiplied by 4 before adding 15, so the left expression is greater.
- 3) **The correct answer is 40.** (NC.5.NF.4) Each whole contains 4 fourths. Ten wholes contain $10 \times 4 = 40$ fourths, so the quotient is 40.
- 4) **Choice C is correct.** (NC.5.NBT.1) $65 \times 10^2 = 65 \times 100 = 6500$ and $650 \times 10 = 6500$. Both equal 6500.
- 5) **Choice B is correct.** (NC.5.NF.1) Subtract: $5.67 - 2.15 = 3.52$. So the missing digit (hundredths of first addend) is 2.
- 6) **Choice A is correct.** (NC.5.OA.3) Each term is made by multiplying the previous term by 10: 1, 10, 100, 1,000, ...
- 7) **Choice C is correct.** (NC.5.NF.1) Add whole parts: $2 + 1 = 3$. Add fractions: $\frac{2}{3} + \frac{1}{3} = 1$. Total: $3 + 1 = 4$.
- 8) **Choice B is correct.** (NC.5.OA.2) Work from the inside out. First $3 \times 4 = 12$, then the bracket becomes $[2 + 12] = 14$, and finally $14 \div 7 = 2$.
- 9) **Choice C is correct.** (NC.5.NBT.7) First add the miles: $156 + 144 = 300$ miles. Then convert miles to feet: $300 \times 5,280 = 1,584,000$ feet.
- 10) **Choice A is correct.** (NC.5.G.3) All angles less than 90 degrees = acute; two equal sides = isosceles.
- 11) **Choice A is correct.** (NC.5.NBT.1) Move the decimal 1 place left: $9.8 \div 10 = 0.98$.
- 12) **Choice D is correct.** (NC.5.MD.4) Each box: $8 \times 5 \times 3 = 120$ cu. in. Two boxes: $120 + 120 = 240$ cu. in.
- 13) **Choice B is correct.** (NC.5.NBT.5) Round 74 to 70 and 49 to 50. Then $70 \times 50 = 3,500$.
- 14) **Choice D is correct.** (NC.5.NBT.3) 0.8 is farther right on the number line than 0.4, so 0.8 is farther from 0.
- 15) **Choice A is correct.** (NC.5.NBT.1) Dividing by 100 moves the decimal point two places to the left. $5,600 \div 100 = 56$.
- 16) **Choice D is correct.** (NC.5.NF.1) $14 - 6 = 8$ and $\frac{9}{12} - \frac{5}{12} = \frac{4}{12} = \frac{1}{3}$. Result: $8\frac{1}{3}$.
- 17) **Choice D is correct.** (NC.5.NBT.1) The tenths place is 5. The hundredths place is 4. Since $4 < 5$, keep 5. So 12.542 rounds to 12.5.
- 18) **Choice C is correct.** (NC.5.NF.7) Sugar for cake = $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$ of the 5-pound bag. Since $\frac{3}{8} \times 5 = \frac{15}{8} = 1\frac{7}{8}$, she used $1\frac{7}{8}$ pounds.
- 19) **Choice B is correct.** (NC.5.NF.1) LCM(5,3) = 15. $\frac{2}{5} = \frac{6}{15}$ and $\frac{1}{3} = \frac{5}{15}$. $\frac{6}{15} + \frac{5}{15} = \frac{11}{15}$ cup.
- 20) **Choices A, B are correct.** (NC.5.NF.7) We are counting one-third scoops in 2 cups. A gives the division equation, and B is the related multiplication equation.
- 21) **Choice C is correct.** (NC.5.G.3) Using this definition, a quadrilateral with exactly one pair of parallel sides is a trapezoid. Rectangles, rhombuses, and squares have two pairs of parallel sides.
- 22) **Choice C is correct.** (NC.5.MD.4) The base area is $10 \times 10 = 100$ square inches. Since $500 \div 100 = 5$, the height is 5 in.
- 23) **Choice C is correct.** (NC.5.MD.4) Use the rectangular-prism volume formula: $6 \times 7 \times 8 = 336$. So the volume is 336 cubic feet.
- 24) **Choice C is correct.** (NC.5.G.3) A rhombus has four equal sides. If it is not a square, it does not have four right angles.
- 25) **Choice B is correct.** (NC.5.NBT.1) Multiplying by 100 moves the decimal two places right. Starting at 6.73, that gives 673.
- 26) **Choice B is correct.** (NC.5.NF.7) $\frac{3}{8} - \frac{1}{8} = \frac{2}{8} = \frac{1}{4}$ of the bookshelf is still checked out.
- 27) **The correct answer is 15.** (NC.5.NF.7) Each meter has 3 third-meter pieces. Five meters have $5 \times 3 = 15$ pieces.
- 28) **Choice A is correct.** (NC.5.NF.4) Half of 20 is $20 \times \frac{1}{2} = 10$ cookies. Scaling by $\frac{1}{2}$ halves the amount.
- 29) **The correct answer is $\frac{1}{8}$.** (NC.5.NF.4) $\frac{1}{4} \div 2 = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$.
- 30) **Choice C is correct.** (NC.5.G.1) The pattern is pepper = $5 \times$ salt. For salt 3: pepper should be 15, not 14.



Dear Student,

★ By completing seven practice tests, you did something that many students never do—you trained your attention. Attention means you can stay with a question long enough to understand it, choose a strategy, and solve it carefully. ★

◇ **Here's what good test-takers know:** a test is not a race. The goal is not to be first—the goal is to be accurate. When you slow down just enough to read, plan, and check, you earn more points. ◇

My Focus Tools

- **Finger-tracking:** follow each line as you read.
- **Underline:** circle key numbers and important words.
- **Mini-plan:** write one word: add, subtract, multiply, divide, draw.
- **Check:** estimate to see if the answer is reasonable.

Your practice matters. Seven tests later, you can focus longer and think more clearly. That will help you on test day—and in everything you learn.

You can email me at reza@testinar.com.

Reza Nazari & Jay Daie
Your Math Coaches (Stay Focused)

PRACTICE TODAY. PERFORM TOMORROW.

Success in math starts with practice! This book provides the **practice, confidence, and skills** your child needs to excel on the Grade 5 Math test and beyond.

KEY BENEFITS:



TARGETED PRACTICE

Focus on the most important Grade 5 math skills.



STANDARD-ALIGNED

All tests align with state standards for Grade 5.



BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



IMPROVE PERFORMANCE

Timed practice helps improve speed and accuracy.



ACHIEVE SUCCESS

Develop strong test-taking skills and achieve your best score!

PERFECT FOR:

✓ Classroom Practice

✓ Homework Help

✓ Test Preparation

✓ Summer Learning

✓ On-the-Go Practice

✓
PRACTICE
PREPARE
SUCCEED



STRONG SKILLS. BRIGHT FUTURE.

Give your child the tools they need to succeed in math and in life!



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SUPPORT
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Every step of the way.