

10 COMPLETE

North Carolina

EOG

GRADE 5

MATH

PRACTICE TESTS

Standards-Based Review with
Mixed Practice and Detailed Answer Key



10 Complete Practice Tests

Build confidence and test readiness



Standards-Based Review

Covers key Grade 5 math standards



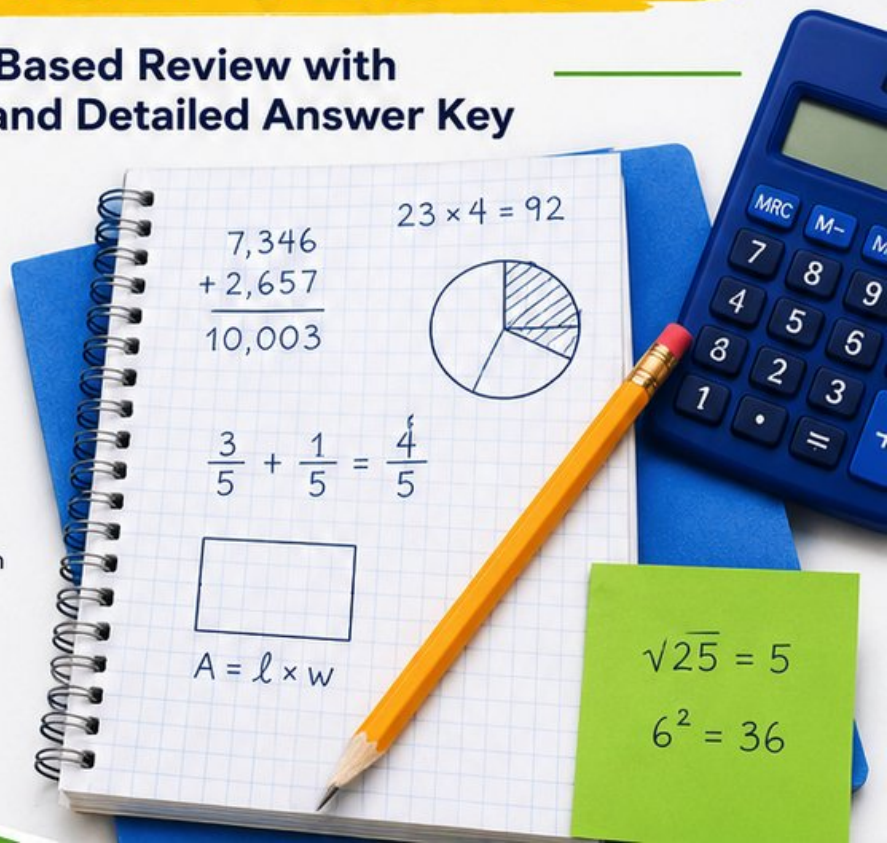
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

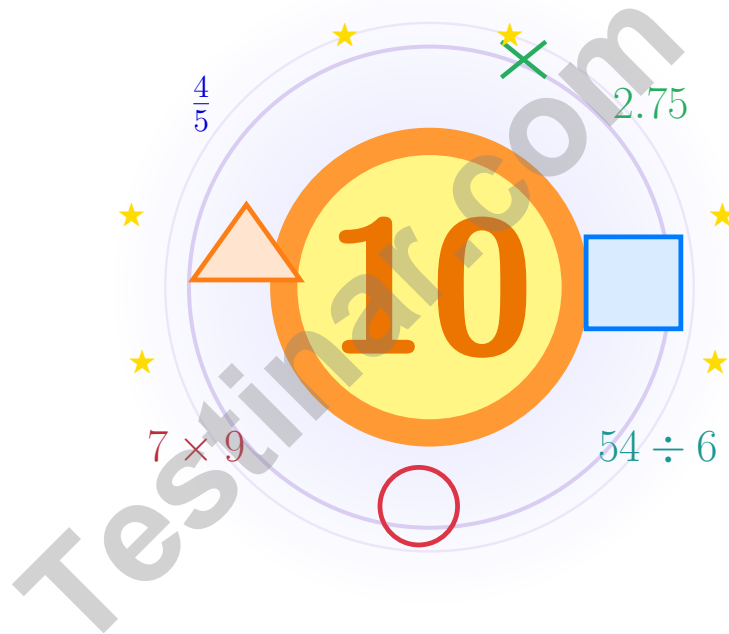
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 North Carolina EOG Grade 5 Math Practice Tests

Bright review, thoughtful practice, and steady confidence for Grade 5



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

Jay Daie and Reza Nazari



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Welcome!

This book is a place to practice bravely and think clearly

Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

Read

Slow down and understand the task.

Solve

Show clear steps and good choices.

Learn

Use mistakes as clues for what comes next.

A strong habit from the start: keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



How to Use This Book

A simple routine that turns practice into real progress

Step 1

Warm up with the quick review.

Spend a few minutes refreshing the ideas before the test begins.

Step 2

Take one full practice test.

Work in a calm spot and aim for careful thinking before speed.

Step 3

Check your work honestly.

Circle missed questions and notice which skills need another look.

Step 4

Fix and reflect.

Read the explanation, repair the work, and bring that lesson into the next test.



A Good 10-Week Rhythm

Week 1	Take Test 1 and notice your starting strengths.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen multiplication and division checks.
Week 4	Take Test 4 and focus on fractions and decimals.
Week 5	Take Test 5 and watch your labels and units closely.
Week 6	Take Test 6 and practice calmer pacing.
Week 7	Take Test 7 and compare your habits with the earlier weeks.
Week 8	Take Test 8 and focus on tidy, checkable work.
Week 9	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
Week 10	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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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)

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

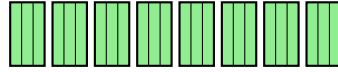
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A garden plot is divided into $\frac{1}{3}$ -square-meter sections. How many sections fit in 8 square meters?

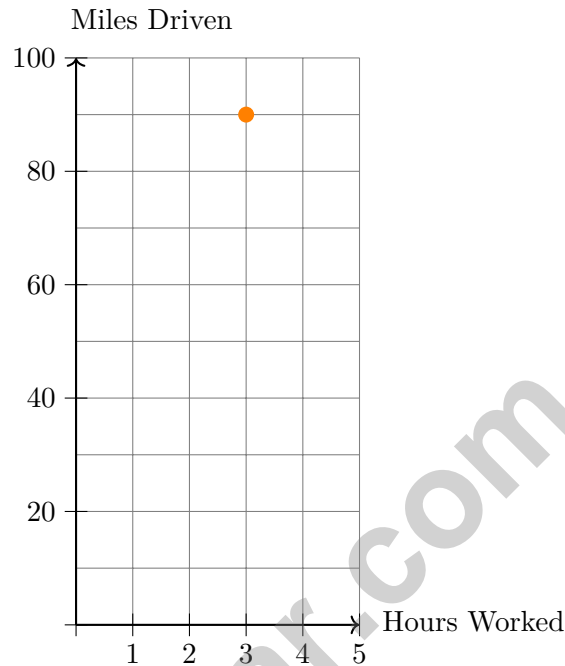


8 m² split into one-third-square-meter sections

- A. 8
- B. 16
- C. 20
- D. 24
- 2) A printing company orders ink cartridges. There are 52 cases with 18 cartridges in each case. How many cartridges are ordered?
- A. 900
- B. 916
- C. 936
- D. 950
- 3) If you multiply 0.6 by 10, which place does the digit 6 move to?
- A. Ones place
- B. Tenths place
- C. Hundredths place
- D. Thousandths place
- 4) Which pattern rule creates the ordered pairs (1, 3), (2, 6), (3, 9), and (4, 12)?
- A. Add 2 to the input.
- B. Multiply the input by 3.
- C. Multiply the input by itself.
- D. Double the input, then add 1.



- 5) A restaurant tracks miles traveled by delivery drivers. This graph shows the relationship between hours worked and miles driven. What does point (3, 90) represent?



- A. 90 hours and 3 miles
- B. 30 hours and 90 miles
- C. 3 hours and 30 miles
- D. 3 hours and 90 miles
- 6) Which value equals 0.5 divided by 10,000?
- A. 0.05
- B. 0.0005
- C. 0.005
- D. 0.00005
- 7) A rectangular prism has dimensions 3 by 1 by 2 unit cubes. What is its volume?

Rectangular prism
 $3 \times 1 \times 2$ unit cubes

- A. 4 cubic units
- B. 12 cubic units
- C. 8 cubic units
- D. 6 cubic units



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

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

LENGTH

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

1 yard (yd) = 3 feet (ft)

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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) What is $13.07 - 8.95$?
- A. 4.12 C. 4.22
 B. 5.12 D. 3.98
- 2) True or false: A right triangle cannot be equilateral.
- A. Always false C. Sometimes true
 B. False D. True
- 3) Without calculating, compare: 2.5×8 2.5×8.5
- A. $>$ C. $=$
 B. $<$ D. Cannot tell
- 4) A science experiment measures 7.635 grams. Round to nearest hundredth.
- A. 7.6 g C. 7.64 g
 B. 7.63 g D. 7.7 g
- 5) Subtract: $\frac{4}{5} - \frac{1}{2}$
- A. $\frac{2}{5}$ C. $\frac{3}{10}$
 B. $\frac{1}{5}$ D. $\frac{4}{10}$
- 6) A teacher has 3,600 sheets of paper. She gives 100 sheets to each student. How many students are there?
- A. 3.6 C. 360
 B. 36 D. 36,000



40) Which subtraction problem requires borrowing from the ones place?

A. $8.54 - 2.30$

B. $7.43 - 5.12$

C. $6.21 - 4.38$

D. $9.75 - 3.22$

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End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Scan me

Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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 D is correct.** (NC.5.NF.4) $8 \div \frac{1}{3} = 8 \times 3 = 24$. There are 24 sections.
- 2) **Choice C is correct.** (NC.5.NBT.5) Multiply: $52 \times 18 = 52 \times (20 - 2) = (52 \times 20) - (52 \times 2) = 1,040 - 104 = 936$ cartridges.
- 3) **Choice A is correct.** (NC.5.NBT.1) $0.6 \times 10 = 6$. The digit 6 was in the tenths place and moves to the ones place.
- 4) **Choice B is correct.** (NC.5.G.1) Check the pattern in the pairs: $1 \times 3 = 3$, $2 \times 3 = 6$, $3 \times 3 = 9$, and $4 \times 3 = 12$.
- 5) **Choice D is correct.** (NC.5.G.1) The x-coordinate (3) is hours worked, and the y-coordinate (90) is miles driven. This means 3 hours of work resulted in 90 miles driven.
- 6) **Choice D is correct.** (NC.5.NBT.1) $0.5 \div 10,000$ moves the decimal four places left, giving 0.00005.
- 7) **Choice D is correct.** (NC.5.MD.4) The prism shows dimensions of length 3, width 1, and height 2. Volume: $3 \times 1 \times 2 = 6$ cubic units.
- 8) **Choice B is correct.** (NC.5.G.1) Point R is 8 units right and 5 units up from the origin, so the coordinates are (8, 5).
- 9) **Choice B is correct.** (NC.5.G.1) To reach (8, 3): move 8 units right (x-coordinate), then 3 units up (y-coordinate).
- 10) **Choice A is correct.** (NC.5.MD.4) Use the rectangular-prism volume formula: $10 \times 3 \times 4 = 120$. So the volume is 120 cubic centimeters.
- 11) **The correct answer is 100 in³.** (NC.5.MD.4) $10 \times 5 \times 2 = 100$ in³.
- 12) **Choice B is correct.** (NC.5.NBT.3) A fraction with denominator 10 equals a decimal with one place: $\frac{8}{10} = 0.8$.
- 13) **Choice A is correct.** (NC.5.NBT.1) Moving the decimal 1 place right means multiplying by 10.
- 14) **Choice D is correct.** (NC.5.NF.1) Both shaded regions cover the same length of bar. Multiplying numerator and denominator of $\frac{2}{3}$ by 3 gives $\frac{6}{9}$, so the fractions are equivalent.
- 15) **Choice B is correct.** (NC.5.MD.1) 1 meter = 100 centimeters. Multiply: $7.5 \times 100 = 750$ cm.
- 16) **Choice B is correct.** (NC.5.NF.1) Count the X marks above 3. There are 3 X marks, so 3 students were absent exactly 3 days.
- 17) **The correct answer is $\frac{13}{24}$.** (NC.5.NF.1) The least common denominator of 8 and 6 is 24. Rewrite $\frac{3}{8}$ as $\frac{9}{24}$ and $\frac{1}{6}$ as $\frac{4}{24}$. Then $\frac{9}{24} + \frac{4}{24} = \frac{13}{24}$.
- 18) **Choices A, B are correct.** (NC.5.NF.1) C gives $\frac{5}{12}$; D gives $\frac{1}{8}$.
- 19) **Choice A is correct.** (NC.5.OA.3) Each term is made by multiplying the previous term by 3: $1 \times 3 = 3$, $3 \times 3 = 9$, and $9 \times 3 = 27$. Continue the rule: $27 \times 3 = 81$.
- 20) **The correct answer is $\frac{1}{2}$.** (NC.5.NF.4) Multiply across: $\frac{2 \times 3}{3 \times 4} = \frac{6}{12}$. Then simplify $\frac{6}{12}$ to $\frac{1}{2}$.
- 21) **Choice A is correct.** (NC.5.NF.4) $\frac{1}{4} \div 5 = \frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$.
- 22) **Choice B is correct.** (NC.5.MD.4) Find each part first: Prism A is $5 \times 4 \times 3 = 60$ cubic inches, and Prism B is $6 \times 4 \times 5 = 120$ cubic inches. Because the parts do not overlap, add them: $60 + 120 = 180$ cubic inches.
- 23) **Choice D is correct.** (NC.5.NBT.7) One route is 3,250 meters. Two routes are $3,250 \times 2 = 6,500$ meters.
- 24) **Choice A is correct.** (NC.5.G.3) A rhombus has all four sides equal in length. It does not have to have four right angles.
- 25) **Choice C is correct.** (NC.5.NBT.1) A power of 10 tells how many factors of 10 to use. $95 \times 10^2 = 95 \times 100 = 9500$. This confirms the answer.
- 26) **Choice C is correct.** (NC.5.NBT.5) "Twice" means multiply by 2. Since it is twice the whole sum, group $8 + 5$ first: $2 \times (8 + 5)$.
- 27) **Choice D is correct.** (NC.5.OA.2) Work from the center outward: $50 - 20 = 30$, then $30 \div 2 = 15$, then $15 + 5 = 20$. The braces just hold that final value, 20.
- 28) **The correct answer is $2\frac{2}{3}$.** (NC.5.NF.1) Rewrite $5\frac{1}{3} = 4\frac{4}{3}$ (borrow). Subtract: $(4 - 2) + (\frac{4}{3} - \frac{2}{3}) = 2\frac{2}{3}$.
- 29) **Choice B is correct.** (NC.5.NF.7) The blue region is 2 out of 4 columns. The red region is 1 out of 3 rows. The overlap shows $\frac{2}{4} \times \frac{1}{3} = \frac{2}{12}$.



Notes From Your Math Architect

Dear Builder of Big Ideas,

◇ Across 10 practice tests, you laid down brick after brick of math skill. The foundation is solid. The walls are strong. The roof is in place. You've built yourself a study sturdy enough to stand any storm test day might bring. ◇

★ **What architects know:** a great building starts with a great plan. You've practiced planning—reading carefully, picking your strategy, and working step by step. That blueprint thinking is what turns hard problems into clear answers. ★

Builder's Inspection Checklist

- **Foundation:** ROCK SOLID! Number sense, fractions, decimals—all in place.
- **Frame:** STRONG! You can break down a problem into clear parts.
- **Walls:** TIGHT! Your work is organized and easy to follow.
- **Roof:** FINISHED! You always answer the question that was asked.

Architect's tip: on test day, build each answer like a small building. Foundation: read the question. Frame: pick the strategy. Walls: do the math. Roof: check the answer. Each piece matters. Each piece is yours.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Architect (Built to Last)

PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



10
COMPLETE
PRACTICE
TESTS

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- ✓ Results-Driven.

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Familiar, focused practice reduces anxiety and boosts self-belief.



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Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

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Identify strengths and target areas with purposeful practice.



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Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

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- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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