

5

North Carolina

EOG

GRADE 3

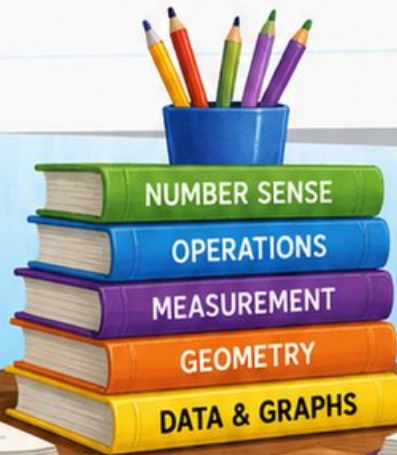
MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations

$24 \div 3 = 8$

$125 + 37$



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-
ALIGNED
PRACTICE



DETAILED
ANSWER KEYS



CLEAR
EXPLANATIONS
TO HELP YOU SUCCEED

5 North Carolina EOG Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the North Carolina EOG. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

North Carolina has mountain roads, coastal islands, pine forests, and classroom trails from start to finish. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

Notice

Circle key words, units, and numbers before you start.

Build

Use arrays, number lines, equations, tables, or sketches.

Verify

Ask, "Does this answer fit the question?"

Five-checkpoint promise: I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

Best review habit: Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	Turn missed items into a clear next step.
Standards Reference	See how North Carolina Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.



Scan me!
For more practice
& answers

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1) Ben has 72 marbles. He puts them into bags with 8 marbles in each bag. Which division equation can be used to find how many bags he fills?

A. $72 \div 8 = \square$

C. $72 - 8 = \square$

B. $8 \times \square = 72$

D. $72 + 8 = \square$

2) Lily has one whole cake. Which fraction is this?

A. $\frac{1}{4}$

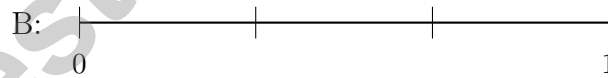
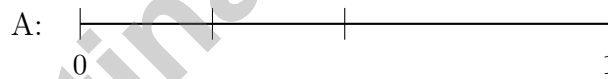
C. $\frac{1}{1}$

B. $\frac{4}{1}$

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

3) What is 4×50 ?

4) Which number line correctly divides from 0 to 1 into 3 equal parts?

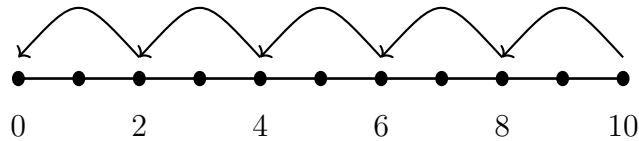
 A. Option A C. Neither B. Option B D. Both

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10) A rectangle is 6 units long and 8 units wide. Which shows its area broken into two smaller rectangles?

- A. $6 \times 8 = 6 \times (3+5) = (6 \times 3) + (6 \times 5)$ C. $6 + 8 = 14$
 B. $6 \times 8 = 48$ D. $6 + 8 + 6 + 8 = 28$

11) Which number sentence is shown by the repeated subtraction on the number line?



- A. $10 \div 2 = 5$ C. $10 - 2 = 8$
 B. $10 \div 5 = 2$ D. $2 \times 5 = 10$

12) Sam says: " $\frac{4}{8} > \frac{4}{6}$ because 8 is bigger than 6." Is Sam right?

- A. Yes, Sam is right C. No, the fractions are equal
 B. No, Sam got the rule backwards D. Cannot tell from the fractions

13) A square tile has side length 3 inches. What is its area?

- A. 9 sq in C. 12 sq in
 B. 6 sq in D. 15 sq in

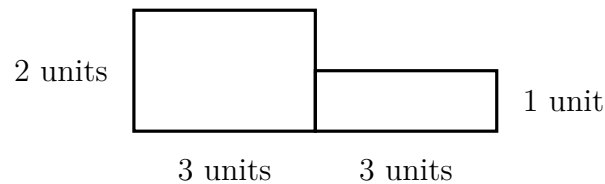
14) Lily bakes 36 cupcakes. She divides them equally into 4 boxes. She sells 2 boxes. How many cupcakes does she have left?

- A. 9 C. 27
 B. 18 D. 36



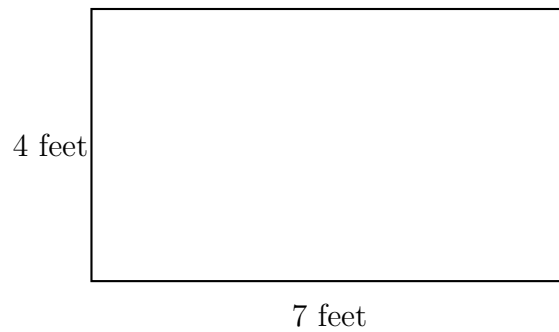
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- 1) A composite shape is made by joining two rectangles. What is the total area?



- A. 6 sq units
- B. 9 sq units
- C. 12 sq units
- D. 15 sq units
- 2) A tiled rectangle has two parts: $10 \times 3 = 30$ and $10 \times 7 = 70$. Which expanded distributive equation is correct?
- A. $10 \times (3 + 7) = 10 + 10 = 20$
- B. $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$
- C. $10 \times 3 + 7 = 37$
- D. $3 + 7 = 10$
- 3) Lily shares 18 crayons equally among 6 friends. How many crayons does each friend get?
- A. 2
- B. 24
- C. 4
- D. 3
- 4) Noah measures the mass of three books. The first weighs 300 g, the second weighs 400 g, and the third weighs 350 g. If he carries all three books, what is the total mass in grams?





5)

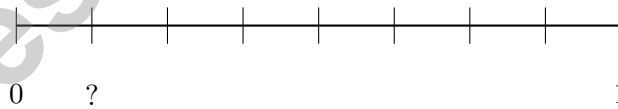
Find the area of the rectangle above.

 A. 22 sq ft B. 32 sq ft C. 14 sq ft D. 28 sq ft

6) A rectangle has 8 equal parts. How many parts make $\frac{1}{2}$?



7) A number line from 0 to 1 is split into 8 equal parts. What is the unit fraction at the first tick?

 A. $\frac{1}{8}$ B. $\frac{2}{8}$ C. $\frac{1}{7}$ D. $\frac{3}{8}$ 

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1) How many unit fractions of $\frac{1}{6}$ are in the total of $\frac{1}{6} + \frac{1}{6}$?

A. 1

C. 6

B. 2

D. 12

2) Round 734 to the nearest 10.

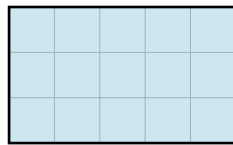
A. 730

C. 740

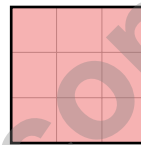
B. 734

D. 800

3) Two shapes are drawn on grids. Shape X covers 15 square units. Shape Y covers 9 square units. Which shape covers more space inside?



Shape X



Shape Y

A. Shape X

C. They cover the same space

B. Shape Y

D. Cannot tell from the picture

4) Which tiling correctly shows $9 \times (2 + 5)$?

A. Two rectangles stacked with dimensions 9×2 and 9×5

C. One rectangle 9×7

B. Two rectangles side by side with dimensions 2×5 and 9×5

D. A rectangle split with one part being 9×5



5) How many odd numbers are in the pattern 4, 8, 12, 16, 20, 24, 28? Explain why.

6) This area model shows 4×60 . What is the missing part?

6×10	6×10	6×10	6×10
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$$4 \times 60 = (4 \times 6 \times 10) = ?$$

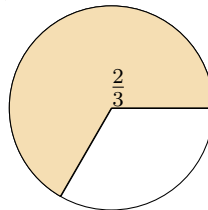
A. 24

B. 60

C. 240

D. 2400

7) Which fraction is equivalent to $\frac{2}{3}$?



A. $\frac{4}{6}$

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

C. $\frac{2}{4}$

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



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& answers

Practice Test Answer Keys

How to use this section with a Grade 3 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 A is correct.** **(3.OA.A.4)** To find the number of bags, divide the total marbles by the marbles in each bag: $72 \div 8 = 9$.
- Choice C is correct.** **(3.NF.A.3c)** One whole cake can be written as $\frac{1}{1}$ because the numerator and denominator are the same.
- The correct answer is 200.** **(3.NBT.A.3)** Multiply $4 \times 5 = 20$, then add one zero: $4 \times 50 = 200$.
- Choice B is correct.** **(3.NF.A.2a)** Option B has equal spacing. Option A is unequal; distances differ.
- Choice D is correct.** **(3.OA.A.3)** Multiply: 7 bags \times 3 kg per bag = 21 kg of flour.
- Choice D is correct.** **(3.OA.A.1)** The array shows 3 rows with 4 circles in each row. So $3 \times 4 = 12$ circles.
- Choice D is correct.** **(3.MD.A.2)** Multiply: $3 \times 400 = 1200$ mL.
- Choice D is correct.** **(3.NF.A.2b)** $\frac{4}{8} = \frac{1}{2}$. On a 0-to-2 line, $\frac{1}{2}$ of the distance is at 1.
- Choice D is correct.** **(3.OA.D.9)** Any number times 2 is even. Products: $2 \times 1 = 2$, $2 \times 2 = 4$, etc., are all even.
- Choice A is correct.** **(3.MD.C.7c)** The distributive property lets us split 8 into 3 + 5 and add two smaller areas: $18 + 30 = 48$. This matches tiling the rectangle in two parts.
- Choice A is correct.** **(3.OA.A.2)** The number line shows 5 jumps of -2 from 10 to 0. This represents $10 \div 2 = 5$ (there are 5 groups of 2 in 10).
- Choice B is correct.** **(3.NF.A.3d)** With the same numerator, a LARGER denominator means SMALLER pieces. So $\frac{4}{8} < \frac{4}{6}$, not greater.
- Choice A is correct.** **(3.MD.C.7)** A square with side 3 has area $3 \times 3 = 9$ square inches.
- Choice B is correct.** **(3.OA.D.8)** Step 1: Divide: $36 \div 4 = 9$ cupcakes per box. Step 2: Find unsold: $4 - 2 = 2$ boxes left, which is $2 \times 9 = 18$ cupcakes. (Choice A is step 1 only.)
- Choices A and C are correct.** **(3.MD.C.7d)** A is correct because it divides into non-overlapping rectangles and adds. C is correct (any horizontal or vertical decomposition works). B is wrong (multiply areas, not add individual dimensions). D is also valid but only A and C are listed as choices. E is wrong (must find actual areas, not just look at the longest side).
- Choice A is correct.** **(3.OA.B.6)** $21 \div 3 = \square$ asks: $\square \times 3 = 21$. Since $7 \times 3 = 21$, the answer is 7.
- The correct answer is $\frac{1}{2}$.** **(3.NF.A.3)** $\frac{2}{4} = \frac{1}{2}$.
- Choice A is correct.** **(3.MD.B.4)** The prompt tells us there is 1 note at $2\frac{1}{2}$ beats.
- Choice B is correct.** **(3.MD.C.5)** $4 \times 5 = 20$ square units. The other options give: $2 \times 8 = 16$, $3 \times 6 = 18$, $2 \times 9 = 18$.
- Choice A is correct.** **(3.NF.A.2)** $\frac{1}{6}$ means one part out of six equal parts, which is at the first tick mark from 0.
- Choice C is correct.** **(3.MD.C.5b)** $6 \times 6 = 36$ unit square tiles.
- Choice A is correct.** **(3.MD.C.6)** $6 \times 3 = 18$ unit squares.
- Choice B is correct.** **(3.MD.B.3)** Zoe: $6 \times 4 = 24$. Jake: $4 \times 4 = 16$. Fewer: $24 - 16 = 8$.
- Choice C is correct.** **(3.NF.A.3b)** Pie 1 shows $\frac{1}{4}$ and Pie 2 shows $\frac{2}{8}$. Both show one-quarter shaded. They are equivalent: $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- Choice C is correct.** **(3.NBT.A.1)** Numbers from 350 to 449 round to 400. The number 449 has tens $4 < 5$, so it rounds down to 400.
- Choice C is correct.** **(3.MD.C.5a)** Area = 9 in \times 2 in = 18 square inches = 18 unit squares.
- Choice B is correct.** **(3.G.A.1)** A trapezoid is defined by having exactly one pair of parallel sides. This is what makes it different from a parallelogram.
- The correct answer is $\frac{1}{2}$.** **(3.NF.A.3a)** $\frac{3}{6} = \frac{1}{2}$.
- Choice A is correct.** **(3.MD.A.1)** Noon is 12 : 00 PM. $12 : 00 + 25 \text{ min} = 12 : 25 \text{ PM}$. Distractor B (off-by-10), C (full hour), D (adds extra hour).
- Choice A is correct.** **(3.OA.B.5)** By the associative property, $(3 \times 4) \times 2 = 3 \times (4 \times 2) = 24$. Both ways of grouping give the same product.



Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 5 tests is like 5 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

Build Skills. Boost Confidence. Excel in Grade 3 Math!

This book provides 5 full-length Grade 3 math practice tests that follow standards and help students achieve real results.



5 Full-Length Practice Tests

Realistic tests to build stamina and familiarity.



Standards-Aligned Practice

Questions match Grade 3 math standards and key skills.



Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



Review & Master Skills

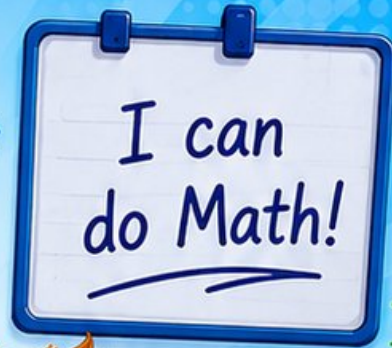
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- ✓ Fractions & Decimals
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- ✓ Perimeter, Area & Volume
- ✓ Time & Money
- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



Visit testinar.com/math3
for more Grade 3 math resources
and practice materials!



$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



Everything Your Child Needs
to Succeed in Grade 3 Math!



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Classroom
Learning



Homework
Support



Test
Preparation



Extra Practice
& Review