

9

North Carolina EOG

GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY

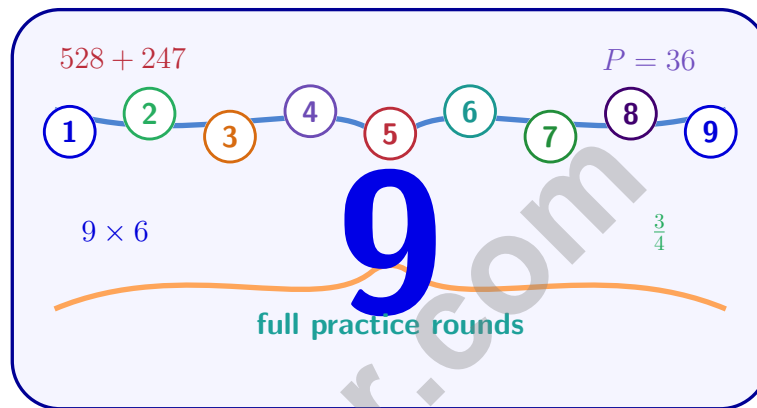


10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 North Carolina EOG Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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North Carolina, Start Your Nine-Round Math Rally

A ready Grade 3 climb from first try to confident finish

This book gives you nine chances to practice like a thoughtful North Carolina EOG test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

North Carolina has mountain trails, coastal sounds, pine forests, research labs, and active classrooms, where careful steps matter. Strong math follows that same idea: prove what the question asks, choose a useful tool, show the work, and notice before moving on.

Your North Carolina Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear North Carolina review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In North Carolina, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with EOG support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A North Carolina standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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1) What is 555 rounded to the nearest 10?

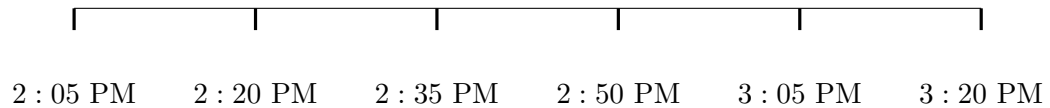
A. 550

C. 560

B. 555

D. 600

2) Look at the number line showing elapsed time.



What is the elapsed time from 2:35 PM to 3:05 PM?

A. 25 minutes

C. 35 minutes

B. 30 minutes

D. 45 minutes

3) Order these fractions from LEAST to GREATEST on a number line from 0 to 1: $\frac{1}{6}$, $\frac{3}{6}$, $\frac{5}{6}$.



A. $\frac{5}{6}$, $\frac{3}{6}$, $\frac{1}{6}$

C. $\frac{3}{6}$, $\frac{1}{6}$, $\frac{5}{6}$

B. $\frac{1}{6}$, $\frac{3}{6}$, $\frac{5}{6}$

D. $\frac{1}{6}$, $\frac{5}{6}$, $\frac{3}{6}$

4) Mia's room is shaped like a rectangle with length 7 ft and width 5 ft. What is the area of her room?

A. 12 ft²

C. 49 ft²

B. 24 ft²

D. 35 ft²



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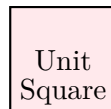
5) Let n be the unknown. A restaurant has 80 chairs. They remove 8 chairs. The remaining chairs are arranged equally in 8 rows. How many chairs are in each row?

- A. 8
 B. 12
 C. 10
 D. 9

6) Which fraction is equivalent to $\frac{3}{4}$?

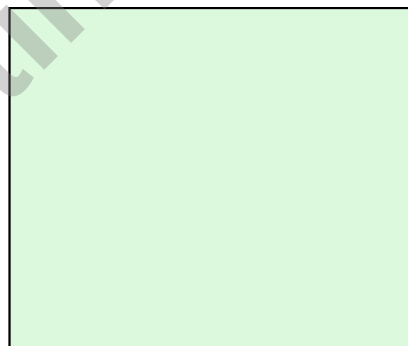
- A. $\frac{3}{8}$
 B. $\frac{3}{6}$
 C. $\frac{6}{8}$
 D. $\frac{2}{4}$

7) Which is true about a unit square?



- A. All sides are different lengths
 B. All sides are 1 unit long and all angles are right angles
 C. It has area equal to its perimeter
 D. It can be any shape as long as area is 1

5 yards



6 yards

8)

A rectangular lawn is 6 yards long and 5 yards wide. What is its area?

- A. 22 sq yd
 B. 60 sq yd
 C. 11 sq yd
 D. 30 sq yd



9) If you know $4 \times 9 = 36$, which division fact can you write?

A. $36 \div 4 = 8$

C. $36 \div 6 = 6$

B. $45 \div 9 = 5$

D. $36 \div 9 = 4$

10) Which fraction is equivalent to $\frac{1}{2}$ by multiplying numerator and denominator by 3?

A. $\frac{2}{6}$

C. $\frac{2}{5}$

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

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

11) Look at the pattern 2, 4, 6, 8, 10. What is the next number? Explain why.



12) A rectangular poster has dimensions of 11 inches by 8 inches. What is the area of the poster?

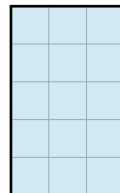
A. 88 square inches

C. 19 square inches

B. 38 square inches

D. 99 square inches

13) This rectangle is divided into unit squares on a grid.



What is the area?

A. 8 sq units

C. 20 sq units

B. 15 sq units

D. 25 sq units



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1) At what time does the hour hand and minute hand point straight up on a clock?

A. 3 : 00

C. 9 : 00

B. 6 : 00

D. 12 : 00

2) Otto divides 72 items into 8 equal groups. To find how many items in each group, which multiplication helps him?

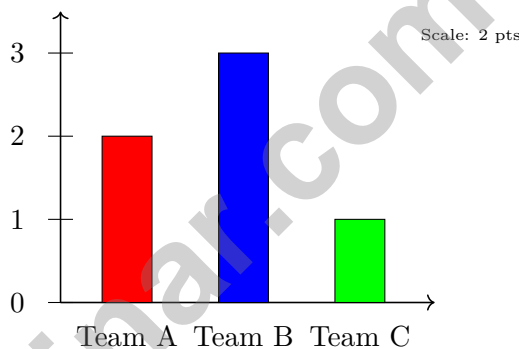
A. $8 \times 8 = 64$

C. $9 \times 7 = 63$

B. $10 \times 8 = 80$

D. $8 \times 9 = 72$

3) A bar graph shows points scored. Scale is 2 points per unit. Read the three bars.



A. Total points: 16

C. Total points: 12

B. Total points: 14

D. Total points: 18

4) Which list shows skip counting by 4s?

A. 2, 4, 6, 8, 10

C. 3, 6, 9, 12, 15

B. 5, 10, 15, 20, 25

D. 4, 8, 12, 16, 20



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5) Which pair of rectangles cannot be tiled to show a distributive property?

A. 5×6 and 5×2

C. 3×5 and 2×4

B. 4×8 and 4×3

D. 7×9 and 7×1

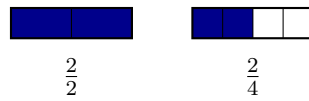
6) Quinn has 3 baskets with 5 apples in each. Quinn gives away 3 apples. How many apples does Quinn have left?

A. 8

C. 15

B. 12

D. 18



7)

Which symbol makes this true? $\frac{2}{4}$ _____ $\frac{2}{2}$

A. $<$

C. $=$

B. $>$

D. \neq

8) A rectangle is 8 inches by 3 inches. What is its area?



1) Look at this table:

$3 \times 9 = 27$	$9 \times 3 = 27$
$27 \div 3 = 9$	$27 \div 9 = 3$

Which equation does NOT belong in this fact family?

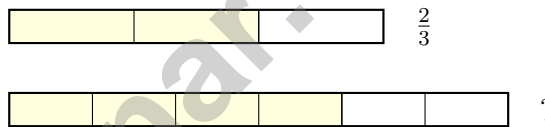
- A. $27 \div 3 = 9$
 C. $3 \times 9 = 27$
 B. $9 \times 3 = 27$
 D. $27 \div 6 = 4$

2) Look at this pattern: 10, 20, 30, 40.

What is the next number?

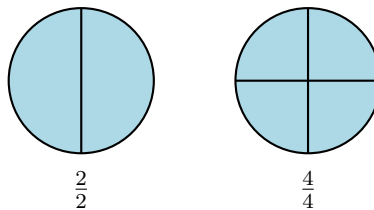
- A. 45
 C. 55
 B. 60
 D. 50

3) Look at the bars. Which fraction is equivalent to $\frac{2}{3}$?



- A. $\frac{2}{6}$
 C. $\frac{4}{6}$
 B. $\frac{3}{6}$
 D. $\frac{3}{4}$

4) Look at the circle models. Which shows 1 whole in two different ways?



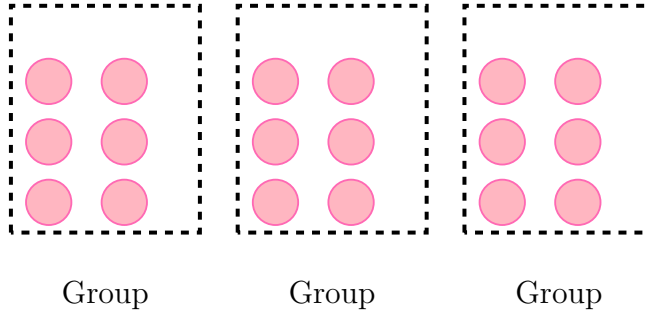
- A. Only the left shows 1
 C. Only the right shows 1
 B. Both show 1 whole
 D. Neither shows 1



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5) Which number sentence matches the picture?

18 items in 3 groups



A. $18 \div 3 = 6$

C. $18 \div 2 = 9$

B. $18 \div 9 = 2$

D. $3 + 6 = 9$

6) A student starts eating lunch at 11 : 38 AM. Recess starts at 12 : 04 PM. How many minutes until recess?



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

- 1) **Choice C is correct.** (NC.3.NBT.3) The ones digit is 5. Since $5 \geq 5$, round up: 555 rounds to 560.
- 2) **Choice B is correct.** (NC.3.MD.1) From 2 : 35 to 3 : 05 spans 2 intervals on the number line: $15 + 15 = 30$ minutes.
- 3) **Choice B is correct.** (NC.3.NF.3) Reading left to right on the number line: first tick ($\frac{1}{6}$), third tick ($\frac{3}{6}$), fifth tick ($\frac{5}{6}$). Least to greatest.
- 4) **Choice D is correct.** (NC.3.OA.8) Area = $7 \times 5 = 35$ ft².
- 5) **Choice D is correct.** (NC.3.OA.8) Step 1: Subtract: $80 - 8 = 72$ chairs. Step 2: Divide by rows: $72 \div 8 = 9$ chairs per row.
- 6) **Choice C is correct.** (NC.3.NF.4) $\frac{3}{4}$ and $\frac{6}{8}$ both show three-fourths of a whole.
- 7) **Choice B is correct.** (NC.3.MD.5) A unit square is defined as a square with side length exactly 1 unit, so all four sides are equal (1 unit each) and all four corners are right angles.
- 8) **Choice D is correct.** (NC.3.MD.5) Area = length \times width = $6 \times 5 = 30$ square yards.
- 9) **Choice D is correct.** (NC.3.NBT.3) If $4 \times 9 = 36$, then $36 \div 9 = 4$. Multiplication and division are inverse operations.
- 10) **Choice B is correct.** (NC.3.NF.3) Multiply numerator and denominator by 3: $\frac{1 \times 3}{2 \times 3} = \frac{3}{6}$.
- 11) **The correct answer is 12.** (NC.3.MD.7) The difference between consecutive numbers is always 2: $2 + 2 = 4$, $4 + 2 = 6$, and so on. So $10 + 2 = 12$.
- 12) **Choice A is correct.** (NC.3.NF.4) Multiply length by width: $11 \times 8 = 88$ square inches.
- 13) **Choice B is correct.** (NC.3.MD.5) $3 \times 5 = 15$ unit squares.
- 14) **Choice D is correct.** (NC.3.OA.1) 8×3 means 8 groups of 3, so $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$. Both equal 24.
- 15) **Choice C is correct.** (NC.3.NBT.3) $2 \times 8 = 16$, then multiply by 10: $2 \times 80 = 160$. You multiply the single digits first, then add one zero.
- 16) **Choices A and E are correct.** (NC.3.NF.1) One horizontal and one vertical line through the center creates 4 equal rectangles. A 2 by 2 grid also makes 4 equal parts. Three uneven vertical lines do not guarantee equal parts. One diagonal line creates 2 equal triangles, and two horizontal lines create 3 parts.
- 17) **Choice B is correct.** (NC.3.NBT.3) Splitting from 0 to 1 into three equal parts gives $\frac{1}{3}$ for each.
- 18) **Choice D is correct.** (NC.3.NF.1) The number line shows jumps of 2 from 0 to 10. There are 5 jumps, so it represents $10 \div 2 = 5$.
- 19) **Choice C is correct.** (NC.3.MD.5) $5 \times 6 = 30$ square units.
- 20) **Choice C is correct.** (NC.3.NF.4) $\frac{3}{4} = \frac{6}{8}$ because both represent three-fourths of their circles.
- 21) **Choice C is correct.** (NC.3.NF.3) $\frac{10}{2}$ means 10 halves. 2 halves make 1 whole, so $10 \div 2 = 5$ wholes.
- 22) **The correct answer is $1\frac{1}{4}$.** (NC.3.MD.5) $\frac{5}{4} = 1\frac{1}{4}$.
- 23) **Choice B is correct.** (NC.3.OA.3) 2 L = 2000 mL is the largest volume.
- 24) **Choice C is correct.** (NC.3.NF.1) Dividing a whole into 4 equal sections creates unit fractions called fourths. One section is one-fourth.
- 25) **Choice B is correct.** (NC.3.NF.4) Same numerator (4): four fourths equals one whole bar, while four eighths is only half the bar. Fourths are bigger pieces than eighths, so $\frac{4}{4} > \frac{4}{8}$.
- 26) **Choice D is correct.** (NC.3.OA.6) Divide: $45 \div 9 = 5$ pencils per student.
- 27) **Choice B is correct.** (NC.3.MD.5) Add the parts: $32 + 15 = 47$ square units.
- 28) **Choice A is correct.** (NC.3.OA.6) From $6 \times 9 = 54$, one related division equation is $54 \div 6 = 9$ (the answer is the factor 9). Option B reverses correctly but is also valid; A is the expected answer. Options C and D use wrong operations.
- 29) **Choice C is correct.** (NC.3.G.1) A square has all 4 sides equal in length and all 4 angles are right angles (90 degrees). This makes it both a rectangle and a rhombus.
- 30) **The correct answer is 525.** (NC.3.NBT.3) Subtract to find the missing addend: $781 - 256 = 525$. Check: $525 + 256 = 781$.



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Hi, Math Champion!

◇ You trained hard! 9 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

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9
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