

# 10 North Carolina NC EOG Grade 3 Math Practice Tests

*The Ultimate Test Prep Collection with Answer Explanations*

**Dr. A. Nazari**

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ULTIMATE MASTERY

# 10 Practice Tests — The Ultimate Math Workout!

Welcome, math master! 🏰

You're holding the **ultimate practice test book** — 10 complete tests that will take you from good to great. This is the most thorough math test training you can get, covering every Grade 3 topic from every angle!

🏰 **10 tests** means **300 questions** of pure practice!

🏰 Every topic covered **multiple times!**

🏰 By the end, you'll **master** the math test!

This is your moment. Let's make it count! 🚀

“ Ten practice tests! That's the commitment of a true math master. By the end of this book, there won't be a single question type that can surprise you! ”

# Your Mastery Plan

*A complete guide to conquering 10 practice tests!*

## What's Inside This Book

- **10 Full-Length Practice Tests** — 300 questions covering every Grade 3 math topic from every angle!
- **Complete Answer Explanations** — Every question has a detailed step-by-step solution so you truly understand.
- **Reference Pages** — Math symbols chart and multiplication table to use whenever you need them.
- **Mastery Tracker** — Track scores, set milestones, and see your journey from start to finish!

## Your 10-Test Roadmap

- **Tests 1–3** **Learn the Ropes.** No timer. Discover strengths and gaps.
  - **Tests 4–6** **Build Momentum.** Start timing. Study weak spots between tests.
  - **Tests 7–9** **Push Your Limits.** Full test conditions. Aim for personal bests.
  - **Test 10** **The Grand Finale!** Your ultimate performance. You're ready!
- 💡 **Tip:** One test per week over 10 weeks is the ideal pace.

### ● Multiple Choice

Pick the best answer from A, B, C, or D.

**Master tip:** After you pick an answer, ask yourself: "Why are the other three wrong?" If you can explain that, you truly understand the concept!

### Short Answer

Show your work and write a clear answer.

**Master tip:** Write your steps as if you're teaching a friend. If someone could follow your work and get the same answer, you've shown your work the right way!

## “ The Mastery Cycle ”



With 10 tests, you have the space to truly master each topic. After every test: **(1)** Check answers. **(2)** Study the explanations. **(3)** Practice tricky topics using our **Grade 3 Math Study Guide**. **(4)** Take the next test and watch your score climb!

👑 10 tests. 300 questions. 1 amazing math master. That's you! 👑

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# 💡 Master-Level Strategies 💡

Expert tricks to help you ace every single test!

## 👑 Your Test-Day Routine

Do this before **every single test**. Make it a habit!

1. **Rest & refuel** — Get sleep the night before. Eat well.
2. **Set up your workspace** — Clear desk. Pencils, eraser, scratch paper.
3. **Set your intention** — “Today I’ll focus on showing my work.” or “Today I’ll double-check every answer.”
4. **Deep breaths** — 3 slow breaths to focus your mind.
5. **Start!** — Remember: this is practice. You’re here to learn.

## ✂️ Advanced Problem-Solving

1. **Read, re-read, then plan.** Read the question. Read it again. Then decide how to solve it.
2. **Estimate first.** Before you calculate, make a rough guess. If your answer is way off from your estimate, something went wrong!
3. **Use elimination on multiple choice.** Cross out 1–2 wrong answers before picking. This boosts your odds!
4. **Draw it out.** Fractions, arrays, word problems — a quick sketch often reveals the answer.
5. **Label everything.** Write “apples,” “cm,” “\$” next to your numbers. It catches silly mistakes.
6. **Work backwards to check.** Got  $24 \div 6 = 4$ ? Check:  $4 \times 6 = 24$ . Perfect!

### 🕒 Smart Pacing

- **First pass:** Answer everything you know quickly (~30 min)
- **Second pass:** Tackle the harder questions (~15 min)
- **Third pass:** Check all answers (~10 min)
- Don’t spend more than 2 minutes on any single question
- Star the hard ones and come back!

### 🧠 The Mastery Mindset

- Mistakes are data, not failures
- Compare yourself to your past self, not others
- Focus on understanding, not memorizing
- Every test you take makes the next one easier
- You’re training, not being tested!



“Here’s the truth: after 10 tests, you’ll know these math topics better than almost anyone in your class. Not because you’re “smarter,” but because you **practiced more**. That’s the secret behind every math master!”

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# X<sup>1</sup> Math Reference Sheet X<sup>1</sup>

*You may use this page during your practice tests!*

| Symbol        | Name             | What It Means                                               |                   |
|---------------|------------------|-------------------------------------------------------------|-------------------|
| +             | Plus (Add)       | Put numbers together.                                       | $3 + 5 = 8$       |
| -             | Minus (Subtract) | Take away from a number.                                    | $9 - 4 = 5$       |
| ×             | Times (Multiply) | Add equal groups.                                           | $4 \times 3 = 12$ |
| ÷             | Divide           | Split into equal groups.                                    | $12 \div 3 = 4$   |
| =             | Equals           | Both sides are the same.                                    | $2 + 3 = 5$       |
| >             | Greater Than     | The left number is bigger.                                  | $7 > 3$           |
| <             | Less Than        | The left number is smaller.                                 | $2 < 9$           |
| $\frac{1}{2}$ | Fraction Bar     | Part of a whole. $\frac{1}{2}$ means 1 out of 2 equal parts |                   |

## Key Math Words

- **Sum** — the answer when you add
- **Difference** — the answer when you subtract
- **Product** — the answer when you multiply
- **Quotient** — the answer when you divide
- **Factor** — a number you multiply
- **Array** — objects in rows and columns
- **Fraction** — a part of a whole
- **Numerator** — the top number in a fraction
- **Denominator** — the bottom number
- **Equation** — a math sentence with =
- **Estimate** — a smart guess, close to the real answer
- **Perimeter** — the distance around a shape
- **Area** — the space inside a shape
- **Rounding** — making a number simpler by going to the nearest ten or hundred

 **Word Problem Clue Words**

- **Add** (+): *in all, total, altogether, combined, sum, both, more*
- **Subtract** (−): *how many more, how many left, fewer, difference, remain*
- **Multiply** (×): *each, every, groups of, times, rows of, per*
- **Divide** (÷): *share equally, split, each group, how many groups, per*



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PRACTICE TEST

1

## Practice Test 1

 30 Questions

### Before You Start

- ✓ *Read each question carefully before choosing your answer.*
- ✓ *Show your work on scratch paper when you need to.*
- ✓ *Skip hard questions and come back to them later.*
- ✓ *Check your answers when you're done.*
- ✓ *Take your time — there's no rush!*

★ *You've Got This!* ★

*Do your best and show what you know!*





7. What is  $3 \times 5$ ?

(A) 8

(B) 12

(C) 15

(D) 35

8. Each hand has 5 fingers. How many fingers are on 4 hands?

Your Answer:

9. Carlos starts with 40 stickers. He gives away 5 stickers at a time. How many times can he give away stickers?

(A) 7

(B) 8

(C) 9

(D) 35

10. If you know  $4 \times 9 = 36$ , which TWO facts can you write immediately?

(A)  $36 \div 4 = 9$  and  $36 \div 9 = 4$

(B)  $36 + 4 = 40$  and  $36 + 9 = 45$

(C)  $36 \div 2 = 18$  and  $36 \div 3 = 12$

(D)  $9 - 4 = 5$  and  $4 + 9 = 13$

11. If you know  $6 \times 4 = 24$ , what is  $6 \times 5$  without multiplying?

(A) 25

(B) 28

(C) 30

(D) 36

12. Which fraction means "two-thirds"?

(A)  $\frac{3}{2}$

(B)  $\frac{2}{3}$

(C)  $\frac{1}{3}$

(D)  $\frac{2}{2}$



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13. What whole number does  $\frac{6}{3}$  equal?

(A) 1

(B) 2

(C) 3

(D) 6

14. 5 friends share a sandwich equally. What unit fraction does each friend get?

Your Answer:

15. Which fraction is NOT equivalent to  $\frac{1}{2}$ ?

(A)  $\frac{2}{4}$

(B)  $\frac{3}{6}$

(C)  $\frac{4}{8}$

(D)  $\frac{3}{8}$

16. What whole number does  $\frac{8}{4}$  equal?

(A) 2

(B) 4

(C) 8

(D) 32

17. Write  $<$ ,  $>$ , or  $=$ :  $\frac{5}{6}$  —  $\frac{3}{6}$

Your Answer:

18. The short hand is past the 11 and the long hand points to the 3. What time is it?

(A) 3:11

(B) 11:03

(C) 11:15

(D) 3:55



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19. Art class starts at 1:20 and lasts 45 minutes. When does art class end?

- (A) 1:65                      (B) 2:05  
(C) 2:15                      (D) 1:45

20. A watermelon has a mass of 6 kg. You cut it in half and eat one half. What is the mass of the remaining half?

- (A) 2 kg                      (B) 3 kg  
(C) 4 kg                      (D) 6 kg

21. A water cooler holds 20 liters. Students drink 3 liters each hour for 4 hours. How much water is left?

- (A) 8 L                      (B) 12 L  
(C) 16 L                      (D) 7 L

22. How many nickels make the same amount as 1 quarter?

- (A) 3                      (B) 4  
(C) 5                      (D) 10

23. Emma buys a juice box for \$1.35 and a muffin for \$2.90. How much does she spend in all?

- (A) \$3.25                      (B) \$4.15  
(C) \$4.25                      (D) \$3.35



24. A picture graph uses each symbol to stand for 2 items. Emma's row has 4 symbols and Jake's row has 6 symbols. How many fewer items does Emma have than Jake?

(A) 2

(B) 4

(C) 8

(D) 10

25. A line plot shows finger lengths. There are 5 X marks above 2 inches, 3 X marks above  $2\frac{1}{2}$  inches, and 4 X marks above 3 inches. How many fingers were measured in all?

Your Answer:

26. A shape has 4 sides. Two sides are parallel and two sides are not parallel. What is the name of this shape?

(A) Rectangle

(B) Rhombus

(C) Square

(D) Trapezoid

27. Which 3D shape has 1 flat circular face and comes to a point at the top?

(A) Cylinder

(B) Sphere

(C) Cube

(D) Cone

28. Which rectangle has the smallest area?

(A) 6 cm  $\times$  5 cm

(B) 3 cm  $\times$  8 cm

(C) 4 cm  $\times$  7 cm

(D) 2 cm  $\times$  10 cm



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29. A square has a perimeter of 36 inches. What is the length of each side?

(A) 6 in

(B) 8 in

(C) 9 in

(D) 12 in

30. A shape is partitioned so that each part is  $\frac{1}{8}$  of the whole. How many equal parts is the shape split into?

Your Answer:

\_\_\_\_\_



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## ★ *End of Practice Test 1* ★

*Great job finishing the test!*

### *My Score*

*I got \_\_\_\_\_ out of 30 questions right.*

*Check your answers in the **Answer Key** at the back of the book.*

 *Review any questions you missed. That's how we learn!*

THANK YOU

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- ✓ *Hundreds of practice problems*
- ✓ *Complete answer key with explanations*
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