

# 8 New York NYSTP GRADE 4



## PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 New York NYSTP Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Eight complete 30-question Grade 4 practice rounds for NYSTP, built around city blocks, lake trails, and focused mixed practice, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, New York Math Explorer!

Eight steady rounds on the Empire State math route

This book gives you eight full Grade 4 practice tests for NYSTP. Each round uses city blocks, lake trails, and focused mixed practice to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## New York Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

## How to Use This Book

A ten-session routine for New York NYSTP review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Empire State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Eight tests, 240 questions, and a full NYSTP review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 6–8	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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For more practice  
& answers

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1) Which fraction equals  $7 \times \frac{1}{3}$ ?

A.  $\frac{3}{7}$

B.  $\frac{7}{3}$  or  $2\frac{1}{3}$

C.  $\frac{1}{21}$

D.  $\frac{7}{7}$

2) What is  $\frac{3}{8} + \frac{2}{8}$ ?

A.  $\frac{1}{8}$

B.  $\frac{5}{8}$

C.  $\frac{5}{16}$

D.  $\frac{6}{8}$

3) Which numeral represents “five thousand, two hundred thirty-four”?

A. 52,340

B. 5,324

C. 523,400

D. 5,234

4) Sam has 832 trading cards. He wants to organize them into 8 albums with the same number of cards per album. How many cards go in each album?

A. 100

B. 102

C. 109

D. 104

5) Write  $\frac{9}{10}$  as a decimal.



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1) Subtract:  $2\frac{3}{4} - 1\frac{1}{4}$

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

B.  $1\frac{2}{4}$

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

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

2) A recipe calls for  $\frac{3}{5}$  cup of milk. If you double the recipe, how much milk do you need?

A.  $\frac{3}{10}$  cup

B.  $\frac{6}{5}$  cups (or  $1\frac{1}{5}$  cups)

C.  $\frac{5}{6}$  cup

D.  $\frac{2}{5}$  cup

3) Which shows a multiple of  $\frac{2}{3}$ ?

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

B.  $\frac{4}{9}$

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

D.  $\frac{5}{6}$

4) A bookstore has two registers. Register A has \$0.96 in coins. Register B has \$0.69 in coins. Which register has more money?

 A. Register A (\$0.96) B. Register B (\$0.69) C. Both registers have the same amount D. Register B has more

5) Estimate the quotient of  $4,156 \div 4$  using compatible numbers.

 A. About 1,000 B. About 800 C. About 1,100 D. About 1,200

6) Ethan has \$35 and spends \$12 on a book. How much money does he have left?

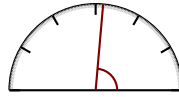
A. \$12

C. \$47

B. \$23

D. \$35

7)



Ava measures an angle and gets a reading very close to 90 degrees. Is this angle acute, right, or obtuse?

A. Right

C. Obtuse

B. Acute

D. Straight

8) Which statement is true?

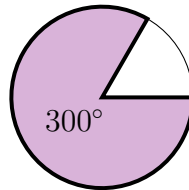
A. Parallel lines always meet at right angles

C. Parallel lines are the same as perpendicular lines

B. Perpendicular lines meet at right angles

D. Perpendicular lines never meet

9)



If the shaded angle measures  $300^\circ$ , what fraction of a complete turn is this?

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

C.  $\frac{5}{6}$

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

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



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6) A student folds a piece of paper creating a crease. The angle on one side of the crease is  $67^\circ$ . If the total angle formed is  $134^\circ$ , what is the angle on the other side?

A.  $67^\circ$

C.  $201^\circ$

B.  $68^\circ$

D.  $134^\circ$

7) A recipe for cookies uses  $\frac{2}{5}$  cup of chocolate chips. If you triple the recipe, how many cups of chocolate chips do you need?

8) Which is a multiple of  $\frac{2}{8}$ ?

A.  $\frac{4}{8}$

C.  $\frac{5}{8}$

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

D.  $\frac{1}{8}$

9) A student says  $0.5 > 0.45$  because 5 is greater than 45. Is this reasoning correct?

A. Yes, the student is correct

C. No,  $0.45 > 0.5$

B. No, you must compare place values, not digits

D. The comparison cannot be made

10) Ming spent \$0.45 on a pencil. This decimal can be written as what fraction?

A.  $\frac{45}{10}$

C.  $\frac{45}{100}$

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

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



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## Practice Test Answer Keys

**How to use this section with a Grade 4 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 B is correct.** (4.NF.4) We take 7 copies of  $\frac{1}{3}$ . Multiply:  $7 \times \frac{1}{3} = \frac{7 \times 1}{3} = \frac{7}{3} = 2\frac{1}{3}$ . The answer is  $2\frac{1}{3}$ .
- Choice B is correct.** (4.NF.3) Same denominator means we just combine numerators:  $3 + 2 = 5$ , so  $\frac{5}{8}$ .
- Choice D is correct.** (4.NBT.2b) Thousands: 5, ones: 234. Combined:  $5,000 + 234 = 5,234$  ✓
- Choice D is correct.** (4.NBT.6) Divide:  $83 \div 8 = 10$  r3, bring down the 2 to get  $32 \div 8 = 4$ . Each of Sam's albums holds 104 trading cards.
- The correct answer is 0.9.** (4.NF.5) Nine tenths fills the first decimal place:  $\frac{9}{10} = 0.9$ .
- Choice D is correct.** (4.OA.4) Dots in each figure: Figure 1 has 2, Figure 2 has 4, Figure 3 has 6. Each time adds 2. Figure 5 has  $6 + 2 + 2 = 10$  dots.
- Choice C is correct.** (4.MD.4) Add up all the X marks:  $2 + 3 + 1 = 6$  strings in total.
- Choice C is correct.** (4.OA.3) Two steps! Step 1: find how many cookies are left after giving some away.  $50 - 14 = 36$  cookies. Step 2: equal bags means divide:  $36 \div 4 = 9$  cookies per bag.
- Choice A is correct.** (4.NF.3) Tom ate 5 slices out of 11, which is the fraction  $\frac{5}{11}$ . This is 5 copies of  $\frac{1}{11}$ .
- Choice A is correct.** (4.MD.2a) Since 1 cup = 8 fluid ounces, divide:  $120 \div 8 = 15$  cups. The answer is 15 cups.
- Choice B is correct.** (4.MD.7) The diagram shows two angles meeting at one vertex. Add them together:  $28^\circ + 47^\circ = 75^\circ$ .
- Choice B is correct.** (4.NF.3) The recipe needs more flour than Noah has. Find the difference:  $\frac{5}{4} - \frac{3}{4} = \frac{2}{4}$  cups more flour needed.
- Choice A is correct.** (4.MD.6) The angle opens toward the right, so use the scale that starts at  $0^\circ$  on the right side—that's the outer scale. Read the degree measure where the second ray crosses that scale. The answer is 65 degrees.
- The correct answer is  $\frac{15}{4}$ .** (4.NF.4) Filling 5 water bottles, each holding  $\frac{3}{4}$  liter, gives us  $5 \times \frac{3}{4} = \frac{15}{4}$  liters total.
- The correct answer is 96 sq in.** (4.MD.3) Poster area =  $12 \times 8 = 96$  sq in.
- Choice A is correct.** (4.NBT.4) The correct answer is  $5,003 - 1,245 = 3,758$ , not 4,758. The student did not regroup correctly across the zeros.
- The correct answer is B, D.** (4.NF.1) Use  $\frac{1}{2}$  as benchmark:  $\frac{3}{5} = \frac{6}{10} > \frac{5}{10} = \frac{1}{2}$  and  $\frac{5}{8} > \frac{4}{8} = \frac{1}{2}$ . The others are less than  $\frac{1}{2}$ .
- Choice C is correct.** (4.G.3) The letter A looks the same on both sides of a vertical line running down its middle. Fold it along that line and both sides match perfectly! The answer is letter A.
- Choice D is correct.** (4.OA.2) Marcus's 28 candles are 7 times Sylvio's amount. To find Sylvio's amount, divide:  $28 \div 7 = 4$  candles.
- Choice A is correct.** (4.MD.5) Compare the fractions:  $\frac{1}{2} = 0.5$ ,  $\frac{1}{3} \approx 0.33$ ,  $\frac{2}{5} = 0.4$ ,  $\frac{1}{4} = 0.25$ . The largest fraction is  $\frac{1}{2}$ .
- Choice D is correct.** (4.NBT.3) We're rounding to the nearest hundred. Look at the tens digit: 4. Since  $4 < 5$ , we round DOWN. The hundreds digit stays at 5, giving us **87,500**. ✓
- Choice A is correct.** (4.NF.4) Starting at 0, we make 3 jumps forward, each of size  $\frac{1}{5}$ . The final red circle shows we land at  $3 \times \frac{1}{5} = \frac{3}{5}$ .
- Choice A is correct.** (4.G.1) The blue tick marks appear on opposite sides (top and bottom), and the red tick marks appear on the opposite sides (left and right). This pattern indicates that opposite sides are equal in length. The answer is A.
- Choice D is correct.** (4.NBT.5) Think:  $3 \times 24 = 3 \times (20 + 4) = 60 + 12 = 72$  chairs.
- Choice C is correct.** (4.NF.3) Add the wholes:  $3 + 1 = 4$ . Add the fractions:  $\frac{2}{6} + \frac{4}{6} = \frac{6}{6} = 1$ . Combine:  $4 + 1 = 5$  meters.
- Choice D is correct.** (4.OA.4) Test the small primes: 23 is odd; digit sum  $2 + 3 = 5$  (not  $\div 3$ ); doesn't end in 0 or 5;  $7 \times 3 = 21$ ,  $7 \times 4 = 28$ , no 7. So 23 has only factors 1 and itself—**prime**.
- Choice A is correct.** (4.OA.1) Look for the magic words "times as many"—those are the multiplicative clue. Only choice A uses them. The others say "more," "less," or "plus," which describe addition or subtraction.



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## Hi, Brave Explorer!

◇ What a trip! You explored 8 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 8 tests, you learned a lot. You are a stronger math explorer now. ★

### Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

**Explorer tip:** on test day, use the tools you packed. You have the skills. You are ready!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Trail Guide

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement

★ CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Academic Success

Strengthen skills needed for future learning.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ Mathematical Reasoning
- ✓ And More! ★



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Strengthens Critical Thinking & Problem Solving



Encourages Independent Learning



Prepares Students for Future Success