

7

New York

NYSTP

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

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



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

7 New York NYSTP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Empire State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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) Mia measured fish lengths in halves of an inch: $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, 1, $\frac{3}{2}$, 1. When plotted, which length has the most X marks?

A. $\frac{1}{2}$ in

C. $\frac{3}{2}$ in

B. 1 in

D. 2 in

2) What is $6 \times \frac{1}{8}$?

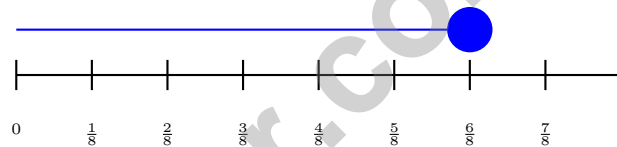
A. $\frac{1}{48}$

C. $\frac{6}{8}$ or $\frac{3}{4}$

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

D. $\frac{6}{1}$

3) Here is a number line showing $\frac{6}{8}$:



Which shows one correct way to decompose this into two equal jumps?

A. Jump $\frac{3}{8}$, then jump $\frac{3}{8}$

C. Jump $\frac{4}{8}$, then jump $\frac{3}{8}$

B. Jump $\frac{2}{8}$, then jump $\frac{4}{8}$

D. Jump $\frac{1}{8}$, then jump $\frac{6}{8}$

4) The rule is “add 7.” If the first term is 5, what is the third term?

A. 12

C. 22

B. 26

D. 19



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5) What is $\frac{6}{10} - \frac{1}{10}$?

A. $\frac{5}{10}$

B. $\frac{7}{10}$

C. $\frac{5}{20}$

D. $\frac{1}{10}$

6) In the number 1,111, which relationship is true?

Thousands	Hundreds	Tens	Ones
1	1	1	1

A. The ones value is 10 times the tens value.

C. The tens value is 100 times the ones value.

B. The thousands value is 10 times the tens value.

D. The hundreds value is 10 times the tens value.

7) Points that lie on the same line are called:

A. Vertical points

C. Parallel points

B. Collinear points

D. Angular points

8) A poster is a rectangle with a length of 11 inches and a width of 8 inches. What is its perimeter?

A. 19 in

C. 88 in

B. 38 in

D. 43 in

9) A student wrote: $\frac{3}{10} + \frac{3}{100} = \frac{6}{110}$. What is the correct answer?

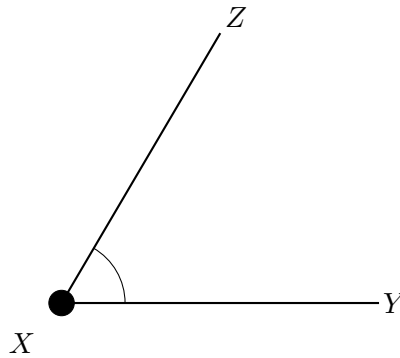
A. $\frac{33}{100}$

C. $\frac{6}{110}$ (student is correct)

B. $\frac{6}{100}$

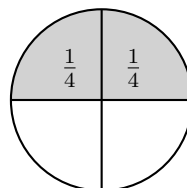
D. $\frac{30}{100}$





10)

In angle $\angle YXZ$, which letter names the vertex?

 A. X C. Z B. Y D. All three11) What is $50,000 - 23,456$? A. 26,544 C. 26,444 B. 27,544 D. 27,44412) What is $4,205 \div 5$? A. 841 C. 821 B. 831 D. 851 $\frac{1}{2}$ painted

13)

A circular garden section is $\frac{1}{2}$ painted yellow. How much of the garden is not painted?

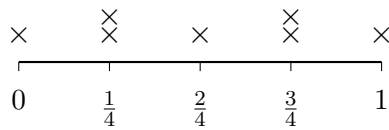
 A. $\frac{1}{2}$ C. $\frac{3}{4}$ B. $\frac{1}{4}$ D. $\frac{3}{8}$ 

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- 1) A race track is 400 meters long. If Maria runs around it 3 times, how many meters does she run in total?
- A. 400 m C. 1,200 m
 B. 800 m D. 1,500 m
- 2) Ava has $\frac{2}{5}$ of a candy bar. Diego gives her $\frac{2}{5}$ more. How much candy does Ava have now?
- A. $\frac{4}{10}$ C. $1\frac{1}{5}$
 B. $\frac{4}{5}$ D. $\frac{2}{10}$
- 3) Noah is training for a race. Each day he jogs $\frac{1}{2}$ mile. If he trains for 4 days, how far does he jog in total?
- A. $\frac{1}{8}$ mile C. 2 miles
 B. $\frac{4}{4}$ miles D. $\frac{1}{2}$ mile
- 4) A quarter turn around a circle measures how many degrees?
- A. 45° C. 180°
 B. 90° D. 270°
- 5) Which is equal to 0.80?
- A. $\frac{8}{10}$ C. 0.08
 B. $\frac{8}{100}$ D. 0.008



4) Here is a line plot with measurements in fourths:



What is the range (difference between highest and lowest values) on this line plot?

- A. $\frac{1}{4}$
 C. $\frac{3}{4}$
 B. $\frac{2}{4}$
 D. 1

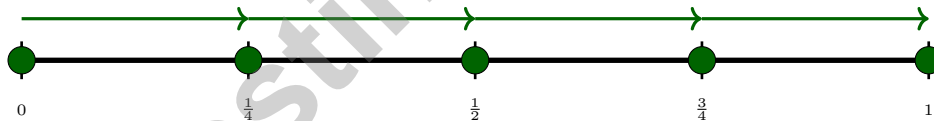
5) An isosceles triangle (not equilateral) has how many lines of symmetry?

- A. 0
 C. 2
 B. 1
 D. 3

6) How does 0.4 compare to 0.40?

- A. $0.4 < 0.40$
 C. $0.4 = 0.40$
 B. $0.4 > 0.40$
 D. $0.4 = 0.04$

7)



The number line shows 4 equal jumps of $\frac{1}{4}$. What multiplication is shown?

- A. $4 \times \frac{1}{4} = 1$
 C. $4 \times 1 = 4$
 B. $4 \times \frac{1}{4} = \frac{1}{4}$
 D. $\frac{4}{4} = 4$



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 A is correct.** (4.MD.4) Count each length: $\frac{1}{2}$ in appears 3 times (the most!), 1 in appears 2 times, and $\frac{3}{2}$ in appears 1 time. So $\frac{1}{2}$ in has the most X marks.
- Choice C is correct.** (4.NF.4) We take 6 copies of $\frac{1}{8}$. Multiply: $6 \times \frac{1}{8} = \frac{6 \times 1}{8} = \frac{6}{8} = \frac{3}{4}$. The answer is $\frac{3}{4}$.
- Choice A is correct.** (4.NF.3) Two equal jumps of $\frac{3}{8}$ each: $3 + 3 = 6$, so $\frac{3}{8} + \frac{3}{8} = \frac{6}{8}$ ✓. Both parts are the same!
- Choice D is correct.** (4.OA.4) Start at 5 and apply “add 7” twice: $5 \rightarrow 12 \rightarrow 19$. The 3rd term is **19**.
- Choice A is correct.** (4.NF.3) Subtract the numerators: $6 - 1 = 5$. Keep the denominator the same: $\frac{5}{10}$.
- Choice D is correct.** (4.NBT.1) In 1,111: hundreds place is worth 100 and tens place is worth 10. Since $100 \div 10 = 10$, the hundreds is 10 times the tens. Statement A is true. ✓
- Choice B is correct.** (4.G.1) Collinear is just a fancy word meaning “on the same line.” If you can draw one straight line through all the points, they’re collinear!
- Choice B is correct.** (4.MD.3) The perimeter of the poster is $P = 2(11) + 2(8) = 22 + 16 = 38$ in.
- Choice A is correct.** (4.NF.5) The student tried to add the denominators, which is wrong! The correct way: convert $\frac{3}{10} = \frac{30}{100}$, then add: $\frac{30}{100} + \frac{3}{100} = \frac{33}{100}$.
- Choice A is correct.** (4.MD.5) In angle notation $\angle YXZ$, the middle letter names the vertex. The middle letter is X.
- Choice A is correct.** (4.NBT.4) Subtract from 50,000 using regrouping. The answer is **26,544**.
- Choice A is correct.** (4.NBT.6) Long division: $4 \div 5 = 0$ r4, bring down the 2 to get $42 \div 5 = 8$ r2, bring down the 0 to get $20 \div 5 = 4$, bring down the 5 to get $5 \div 5 = 1$. The quotient is **841**.
- Choice A is correct.** (4.NF.3) The circular garden section is shown with yellow paint. Subtract the painted part from the whole: $1 - \frac{1}{2} = \frac{1}{2}$ unpainted.
- The correct answer is 75.** (4.OA.3) Equal rows means multiply: 5 rows \times 15 plants = **75** plants.
- Choice D is correct.** (4.OA.2) “2 times as many” is a multiplication clue. Noah’s sister has 2 groups of 7 crayons: $2 \times 7 = 14$ crayons.
- The correct answer is B, C.** (4.NBT.3) B ✓: In 5,678, hundreds digit is $6 \geq 5$, round UP to 6,000. C ✓: In 3,456, tens digit is $5 \geq 5$, round UP to 3,500. A: 2,345 rounds DOWN to 2,300. D: 7,234 rounds DOWN to 7,000. E: 9,999 rolls over to 10,000.
- Choice C is correct.** (4.NF.4) To make $\frac{3}{4}$, we need 3 copies of $\frac{1}{4}$. So we need **3** unit fractions.
- Choice D is correct.** (4.OA.1) “6 times as many” tells us to multiply. Tara has 6 groups of Nina’s 4 apples: $4 \times 6 = 24$ apples.
- Choice D is correct.** (4.NBT.2b) Breaking it: 73 thousands (“seventy-three thousand”) and 546 ones (“five hundred forty-six”) ✓
- Choice D is correct.** (4.NBT.5) Break 18 into tens and ones: $4 \times (10 + 8) = 40 + 32 = \mathbf{72}$ crayons.
- Choice D is correct.** (4.OA.4) Test the small primes: 29 is odd (not $\div 2$); $2 + 9 = 11$ (not $\div 3$); doesn’t end in 0 or 5 (not $\div 5$); $7 \times 4 = 28$, $7 \times 5 = 35$, no 7. So 29 has only factors 1 and 29—**prime**.
- The correct answer is 12.** (4.MD.5) Divide the full circle by 30 degrees: $360^\circ \div 30^\circ = \mathbf{12}$ angles needed.
- Choice C is correct.** (4.NF.3) Looking at the bar, it has 3 equal parts with 2 shaded. So the shaded fraction is $\frac{2}{3}$. As a sum of unit fractions: $\frac{2}{3} = \frac{1}{3} + \frac{1}{3}$ (two copies of the unit $\frac{1}{3}$). ✓
- Choice C is correct.** (4.NF.1) First simplify the first fraction: $\frac{2}{4} = \frac{1}{2}$. Now find the equivalent with denominator 10: $\frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \frac{5}{10}$.
- Choice A is correct.** (4.G.1) An equilateral triangle has three equal sides and three equal angles. Each angle measures 60 degrees, which is acute (less than 90 degrees). The answer is **A**.
- Choice A is correct.** (4.MD.6) At 88° , this angle is just shy of a right angle but still less than 90° . Any angle less than 90° is acute, no matter how close to 90° it gets. The answer is acute.
- Choice D is correct.** (4.G.3) A regular pentagon with 5 equal sides has five lines of symmetry. Each line passes through one corner (vertex) and the middle of the opposite side. The answer is **5** lines of symmetry.



Scan me!
For more practice
& answers

Ahoy, Math Sailor!

◇ You sailed through 7 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 7 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

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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.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
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