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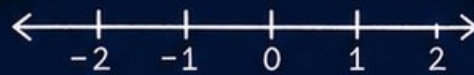
# New York NYSTP



# GRADE 5 MATH

## PRACTICE TESTS

Complete Standards-Based Practice  
— for Grade 5 Math Success —



$$5^2 = 25$$



**6 FULL-LENGTH PRACTICE TESTS**  
Realistic style questions



**STANDARDS-BASED PRACTICE**  
Covers all Grade 5 Math standards

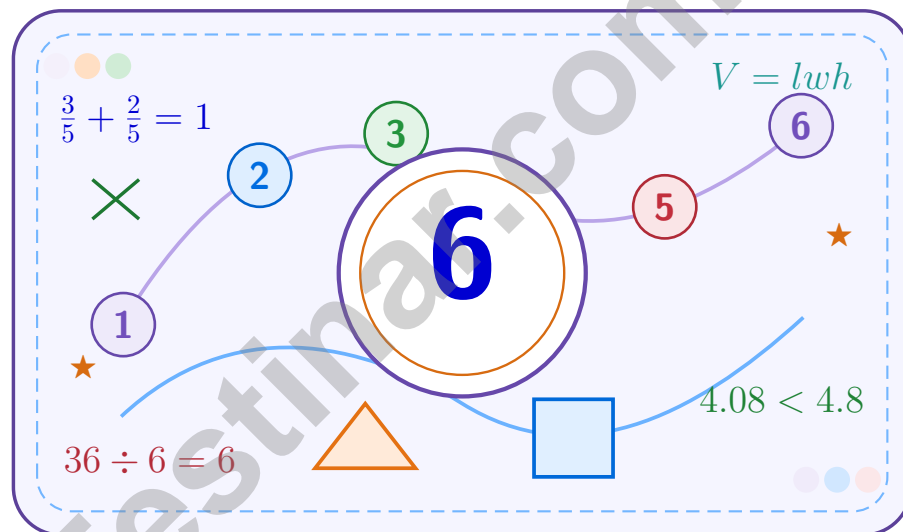


**BUILD CONFIDENCE. IMPROVE SCORES.**  
Target weak areas and achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

# 6 New York NYSTP Grade 5 Math Practice Tests

*A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round*



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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# Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

## To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

### Try

Give each problem your best thinking.

### Check

Study mistakes and learn what happened.

### Rise

Bring that lesson into the next round.

**A strong habit for every page:** read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

# How to Use This Book

A simple practice routine that turns six tests into steady growth

## Step 1: Warm Up

**Start with the quick review.**  
Spend a few minutes refreshing the ideas before you start a test.

## Step 2: Take the Test

**Take one full practice test.**  
Work in a quiet space and let accuracy matter more than speed.

## Step 3: Study the Pattern

**Check your work honestly.**  
Circle missed questions and notice patterns in the mistakes.

## Step 4: Learn, Then Retry

**Read the explanation and try again.**  
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

## A Six-Week Climb Map

Week	Mission Focus
<b>Week 1</b>	Take Test 1 and review any place-value or operation slips.
<b>Week 2</b>	Take Test 2 and focus on showing neat, easy-to-read work.
<b>Week 3</b>	Take Test 3 and give extra time to fractions or decimals if needed.
<b>Week 4</b>	Take Test 4 and slow down on word problems and units.
<b>Week 5</b>	Take Test 5 and compare your score and habits with earlier rounds.
<b>Week 6</b>	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



Scan me

# Test Overview

## What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the New York NYSTP. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

### Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

### Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

**What strong work looks like:** the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



# Table of Contents

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Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

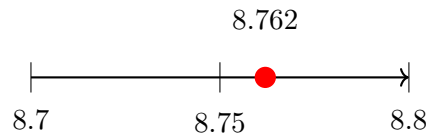
1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

1 day = 24 hours (hr)    1 year = 52 weeks



- 1) Error analysis: Jon reads 2.04 as “two and four tenths”. What is the correct reading?
- A. Two and four hundredths       C. Two and four tenths  
 B. Two point four       D. Two and forty tenths
- 2) Which multiplication will give a product of 81000?
- A.  $81 \times 10$        C.  $8100 \times 100$   
 B.  $810 \times 10$        D.  $81 \times 1000$
- 3) What is the value of  $(20 \div 2) + 6$ ?
- A. 4       C. 16  
 B. 8       D. 20
- 4) Which product is greater:  $11 \times \frac{7}{8}$  or  $11 \times \frac{8}{7}$ ?
- A.  $11 \times \frac{7}{8}$        C. They are equal  
 B.  $11 \times \frac{8}{7}$        D. Cannot be compared
- 5) A trail is  $12\frac{5}{8}$  miles long. Hikers have walked  $5\frac{3}{8}$  miles. How many miles remain?
- A.  $6\frac{1}{8}$  mi       C. 7 mi  
 B.  $6\frac{2}{8}$  mi       D.  $7\frac{1}{4}$  mi
- 6) Maria measures 8.762 meters of ribbon. If she rounds to the nearest tenth for her project, how much does she use?



- A. 8.7 m       C. 8.8 m  
 B. 8.76 m       D. 9 m



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1) Predict which product is largest without calculating all of them.

A:  $9 \times \frac{4}{5}$

B:  $9 \times 1\frac{1}{10}$

C:  $9 \times \frac{9}{10}$

Compare each factor to 1

A.  $9 \times \frac{4}{5}$

C.  $9 \times \frac{9}{10}$

B.  $9 \times 1\frac{1}{10}$

D. All equal

2) What is  $5 \times 10^3$ ?

A. 15

C. 50

B. 500

D. 5000

3) A carpenter uses  $\frac{2}{5}$  yard of wood for one project and  $\frac{3}{10}$  yard for another. How much wood total?

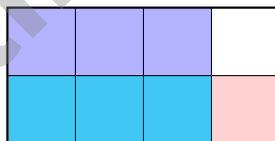
A.  $\frac{5}{15}$  yard

C.  $\frac{12}{10}$  yard

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

D.  $\frac{7}{10}$  yard

4) A garden is  $\frac{3}{4}$  mile long and  $\frac{1}{2}$  mile wide. What is the area of the garden?



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

C.  $\frac{1}{2}$  square miles

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

D.  $\frac{3}{4}$  square miles



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

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### TIME

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1) Which expression is greater:  $50 \div (5 + 5)$  or  $(50 \div 5) + 5$ ?

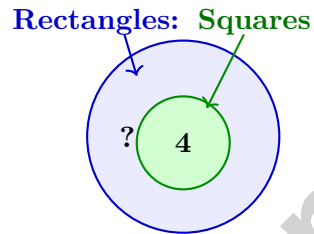
A.  $50 \div (5 + 5)$

C. The expressions are equal.

B.  $(50 \div 5) + 5$

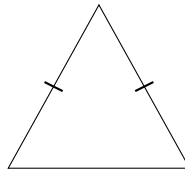
D. Cannot be determined.

2) A Venn diagram shows squares inside rectangles. There are 9 rectangles in all and 4 of them are squares. How many rectangles are not squares?



Record your answer in the space provided.

3) Look at the triangle. Two sides are marked with tick marks. What kind of triangle is it based on its sides?



A. Scalene

C. Equilateral

B. Isosceles

D. Right



## Grade 5 Mathematics Reference Materials

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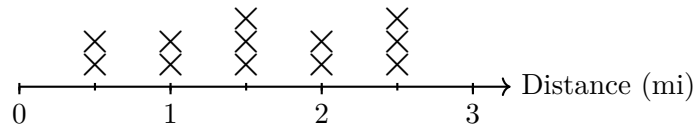
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- 1) The line plot shows distances (in miles) students ran:



The marks are placed at half-mile intervals. How many students ran more than  $\frac{3}{2}$  miles?

- A. 4 students                       C. 6 students  
 B. 5 students                       D. 7 students
- 2) A recipe calls for 0.25 cups of sugar. Is 0.250 cups equivalent?
- A. No, they cannot be compared                       C. No,  $0.25 > 0.250$   
 B. No,  $0.25 < 0.250$                                        D. Yes, they are equivalent
- 3) A warehouse is 50 feet long, 30 feet wide, and 15 feet tall. If half the space is used for storage, what volume is available for work space?
- A. 1125 cubic feet                       C. 22,500 cubic feet  
 B. 11,250 cubic feet                       D. 45,000 cubic feet
- 4) A rectangular prism has volume 100 unit cubes. Its length is 10 and its width is 5. What must its height be?
- A. 2 units                                       C. 5 units  
 B. 4 units                                       D. 10 units
- 5) **Error Analysis:** A student says a box with volume  $270 \text{ cm}^3$ , length 15 cm, and width 9 cm has height 3 cm. What is the correct height?
- A. 2 cm                                       C. 4 cm  
 B. 3 cm                                       D. 5 cm



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(5.NBT.3a)** In 2.04, the 0 holds the tenths place and the 4 is in the hundredths place. So the correct reading is “two and four hundredths.”
- 2) **Choice D is correct.** **(5.NBT.2)**  $81 \times 1000 = 81000$ . Append three zeros to 81 to get 81000.
- 3) **Choice C is correct.** **(5.OA.1)** Evaluate inside the parentheses first:  $20 \div 2 = 10$ . Then add 6 to get 16.
- 4) **Choice B is correct.** **(5.NF.5b)**  $\frac{8}{7} > 1 > \frac{7}{8}$ , so  $11 \times \frac{8}{7}$  is the greater product.
- 5) **Choice D is correct.** **(5.NF.1)**  $12\frac{5}{8} - 5\frac{3}{8} = 7\frac{2}{8}$  mi, and  $\frac{2}{8} = \frac{1}{4}$ . So  $7\frac{1}{4}$  miles remain.
- 6) **Choice C is correct.** **(5.NBT.4)** The tenths place is 7, hundredths is 6. Since  $6 \geq 5$ , round up: 7 becomes 8. Maria uses 8.8 meters.
- 7) **Choice B is correct.** **(5.OA.2)** Both factors are largest in option B:  $18 > 17$  and  $26 > 25$ , so  $18 \times 26$  is greatest.
- 8) **Choice D is correct.** **(5.NF.5b)**  $1\frac{1}{3} = \frac{4}{3}$  and  $1\frac{1}{2} = \frac{3}{2}$ . Multiply:  $\frac{4}{3} \times \frac{3}{2} = \frac{12}{6} = 2$ .
- 9) **The correct answer is 10.** **(5.OA.3)** Each term decreases by 10. Term 10:  $100 - 9 \times 10 = 100 - 90 = 10$ .
- 10) **The correct answer is  $\frac{1}{3}$ .** **(5.NF.4b)**  $2 \times 3 = 6$  parts; overlap is  $1 \times 2 = 2$  parts:  $\frac{2}{6} = \frac{1}{3}$ .
- 11) **Choice B is correct.** **(5.MD.5)** The base area is 45 square centimeters. Since  $180 \div 45 = 4$ , the height is 4 cm.
- 12) **Choice D is correct.** **(5.NF.7b)**  $8 \div \frac{1}{2} = 8 \times 2 = 16$ . It will take 16 nights.
- 13) **Choice C is correct.** **(5.NF.1)** Add:  $4\frac{2}{3} + 3\frac{1}{3} = 8$ .
- 14) **The correct answer is 18.** **(5.NF.2)** Multiples of 6: 6, 12, 18, ... Multiples of 9: 9, 18, ... LCD is 18.
- 15) **Choice A is correct.** **(5.NBT.6)** Start with first two digits:  $81 \div 34 \approx 2$ . Check:  $34 \times 2 = 68$ , and  $81 - 68 = 13$ . This is correct.
- 16) **Choice B is correct.** **(5.MD.1)** Since 1 mile = 5,280 feet, multiply 2 by 5,280:  $2 \times 5,280 = 10,560$  feet.
- 17) **Choice C is correct.** **(5.NF.2)** Sunflower seeds and millet make  $\frac{3}{10} + \frac{2}{10} = \frac{5}{10}$  of the mixture. The other seeds make  $1 - \frac{5}{10} = \frac{5}{10} = \frac{1}{2}$  of the mixture.
- 18) **Choices A, B are correct.** **(5.NBT.2)**  $7 \div 100$  and  $7 \times 0.01$  both make one hundredth of 7, which is 0.07. C and D both equal 0.7.
- 19) **Choice A is correct.** **(5.G.2)** Choice A has vertices forming a rectangle: opposite sides are parallel and equal, and all angles are right angles. The width is  $3 - 1 = 2$  units and the height is  $5 - 1 = 4$  units.
- 20) **Choice D is correct.** **(5.OA.3)** Compare the matching second numbers:  $6 = 2 \times 3$ ,  $12 = 2 \times 6$ , and  $18 = 2 \times 9$ . Pattern Y is always double Pattern X.
- 21) **Choice D is correct.** **(5.NF.7a)**  $\frac{1}{8} \div 3 = \frac{1}{8} \times \frac{1}{3} = \frac{1}{24}$ .
- 22) **Choice B is correct.** **(5.MD.1)** First find the total weight used:  $8.5 + 4.25 = 12.75$  kg. Compare with the limit:  $12.75 - 12 = 0.75$  kg, so they go 0.75 kg over.
- 23) **Choice B is correct.** **(5.G.2)** The x-coordinate is the number of apples (8), and the y-coordinate is the cost in dollars (4). So 8 apples cost \$4.
- 24) **Choice D is correct.** **(5.NBT.7)** Align decimals:  $3.40 + 0.27$ . Hundredths:  $0 + 7 = 7$ ; tenths:  $4 + 2 = 6$ ; ones:  $3 + 0 = 3$ . Sum is 3.67.
- 25) **Choice B is correct.** **(5.NBT.7)**  $4.2 \times 0.5 = 2.1$ . Multiply:  $42 \times 5 = 210$ , then place decimal two places from right:  $2.10 = 2.1$ .
- 26) **Choice B is correct.** **(5.MD.2)** Count the X marks above each shoe size. Size 3 has 4 X marks, which is more than any other size.
- 27) **Choice B is correct.** **(5.NBT.2)** Dividing by 10 moves the decimal point one place to the left. Since  $350 = 350.0$ , we get  $350.0 \div 10 = 35.0 = 35$ .
- 28) **Choice C is correct.** **(5.MD.5a)** Volume =  $10 \times 7 \times 5 = 350$  cubic inches.
- 29) **The correct answer is  $(25 + 4 \cdot 3) \div 2$ .** **(5.OA.2)** The product of 4 and 3 is  $4 \times 3$ ; add 25 to that product, then divide the entire result by 2.
- 30) **Choice B is correct.** **(5.NF.5b)**  $9 \times \frac{2}{3} = 6$ . The product is less than 9 because  $\frac{2}{3} < 1$ .



## Hello, Mathematical Explorer!

★ What an extraordinary expedition! You've charted your way through six comprehensive practice tests, discovering new mathematical territories and mastering challenging concepts along the way! Like the great explorers who mapped unknown lands, you've navigated through complex problems with determination and courage. Each test was a new frontier, and you conquered them all! ★

◇ **Here's what successful explorers understand:** the journey teaches you more than the destination. Through rough terrain and smooth paths, you've learned how to adapt your approach, use your tools effectively, and never give up when the path gets steep. These six tests have equipped you with navigation skills that will guide you successfully through test day and any mathematical challenge ahead!

◇

### Explorer's Achievement Map

- **Territory Covered:** You've explored every major mathematical concept thoroughly!
- **Navigation Skills:** You can find your way through any problem with multiple solution paths!
- **Equipment Mastered:** You know exactly which strategies to use in different situations!
- **Expedition Ready:** You're fully prepared for the ultimate test day adventure!

**Important explorer wisdom:** experienced adventurers always review their maps before embarking on important journeys. Take a few moments before test day to mentally review your successful strategies. Visualize yourself confidently tackling each type of problem. You've already proven you can handle the expedition!

Want to share discoveries from your mathematical expedition? Send your adventure stories to [reza@testinar.com](mailto:reza@testinar.com). I keep a logbook of remarkable student journeys!

**Reza Nazari & Jay Daie**

Your Math Coaches (Practice Makes Progress)

# 6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★  
PRACTICE  
WITH PURPOSE.  
ACHIEVE WITH  
CONFIDENCE.

## WHAT'S INSIDE:



### 6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



### STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



### MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



### WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



### COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



### IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



## WHY PRACTICE MAKES A DIFFERENCE



### BUILD CONFIDENCE

Feel prepared and ready for any challenge.



### IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



### THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



### MANAGE TIME

Practice under timed conditions to build stamina.



### STAY MOTIVATED

Track progress and celebrate every win.



### ACHIEVE SUCCESS

Reach goals and unlock your full potential!



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for more Grade 5 math resources and practice materials!



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