

# 10 New York NYSTP

GRADE  
**6**  
MATH

## PRACTICE TESTS

**Standards-Aligned Review**  
**Mixed Practice & Answer Key**



### 10 PRINTED TESTS

Realistic practice to build confidence and mastery



### 2 ONLINE TESTS

Extra practice for continued success



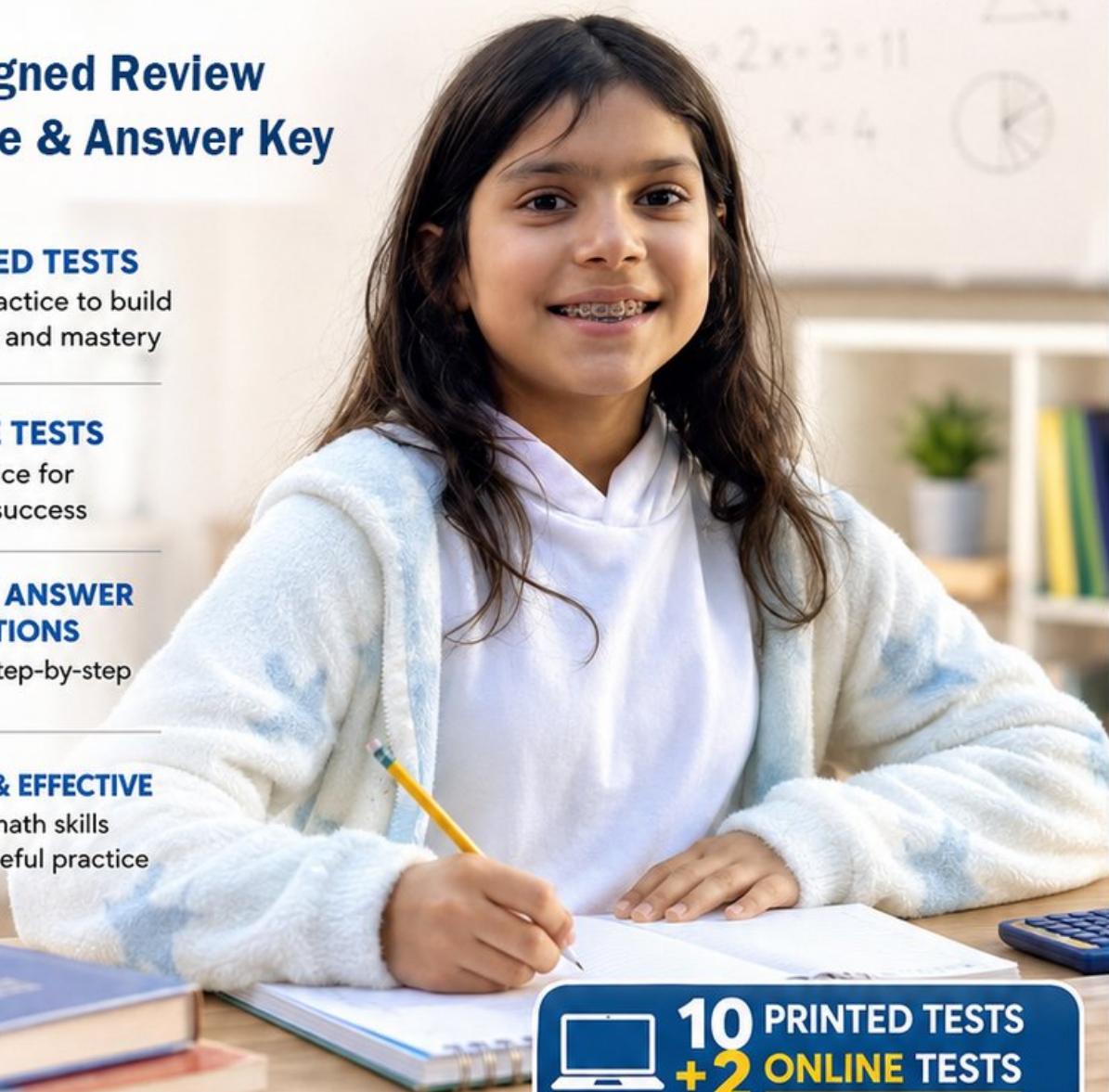
### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



**10** PRINTED TESTS  
**+ 2** ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

**PRACTICE • REVIEW • SUCCEED**

# 10 New York NYSTP Grade 6 Math Practice Tests

*Standards-Aligned Adaptable City-To-State Thinking for New York State Testing Program*



Ten complete 40-question Grade 6 practice rounds for NYSTP, with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



# Copyright ©

## Testinar Inc



Published by Testinar Inc

[Testinar.com](http://Testinar.com)

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



*Copyright ©*

# Welcome, New York Math Explorer!

Ten steady rounds on an Empire State practice route

This book gives you ten full Grade 6 practice tests for NYSTP. Each round uses city grids, river valleys, and fast-changing review topics as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

## Your New York Practice Promise

Switch topics calmly; each new problem deserves a fresh plan. 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 adaptable city-to-state thinking

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
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.

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



## What Is Inside?

Ten NYSTP tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final New York round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Adaptable city-to-state thinking means recognizing the skill even when the next question changes topic.



Scan me!  
For more practice  
& answers

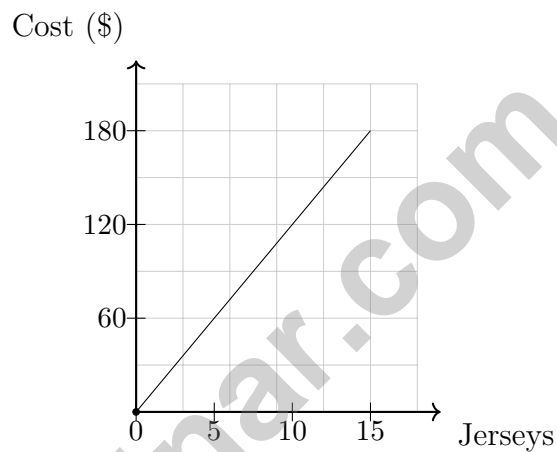
# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	28
★ Practice Test 3	_____	44
★ Practice Test 4	_____	61
★ Practice Test 5	_____	74
★ Practice Test 6	_____	90
★ Practice Test 7	_____	107
★ Practice Test 8	_____	122
★ Practice Test 9	_____	138
★ Practice Test 10	_____	154
<b>Practice Test Answer Keys</b>	_____	<b>169</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>175</b>

1) A car travels 120 miles in 2 hours. At the same rate, how far will it travel in 5 hours?

- A. 240 miles                       C. 360 miles  
 B. 300 miles                       D. 420 miles

2) A soccer team buys jerseys at \$12 per jersey. The team orders 0, 5, 10, and 15 jerseys. Which graph best represents this proportional relationship?



- A. Vertical line                       C. Through origin; rate \$12  
 B. Starts at (5, 60)                       D. Inverse relationship

3) A store marks up a product by 25% from the cost of \$80. What is the selling price?

- A. \$100                       C. \$110  
 B. \$105                       D. \$120



- 4) A student is using a scale of 1 inch = 5 feet. She wants to find the drawing length for an actual wall that is 20 feet long. She divides:  $20 \div 5 = 4$ . Is she correct? If not, which answer is right?
- A. Yes, 4 inches is correct.
- B. No; the drawing length is 25 inches.
- C. No; the drawing length is 15 inches.
- D. No; the drawing length is 100 inches.
- 5) Evaluate:  $\frac{7}{12} \div \frac{7}{8}$
- A.  $\frac{49}{96}$
- B.  $\frac{2}{3}$
- C.  $\frac{12}{8}$
- D.  $\frac{14}{7}$
- 6) A dataset in a stem-and-leaf plot has 8 data points, with the median value being 67. This means:
- A. The 4th and 5th values average to 67
- B. The 5th value is exactly 67
- C. Half the data is above 67 and half is below
- D. The value 67 appears twice in the data
- 7) A class collected data on rainfall (in inches) for each day of the week. Which display would BEST show if certain days had significantly more or less rain than others?
- A. Pie chart divided by day
- B. Line graph connecting consecutive days
- C. Dot plot of individual measurements
- D. Bar graph with one bar per day



Scan me!  
For more practice  
& answers



Yellow Blue

8)

The bar shows yellow and blue sections in a ratio of 3 : 1. If the blue section is 8 units, what is the length of the yellow section?

- A. 3 units                       C. 24 units  
 B. 8 units                       D. 11 units

9) In a class,  $\frac{3}{5}$  of the students are on the soccer team. What is the ratio of soccer players to non-soccer players?

- A. 5 : 3                       C. 3 : 5  
 B. 2 : 5                       D. 3 : 2

10) A student reads 45 pages in  $\frac{3}{4}$  hour. What is the reading rate in pages per hour?

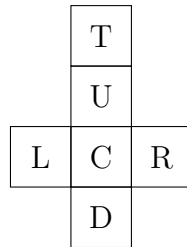
- A. 34 pages per hour                       C. 60 pages per hour  
 B. 45 pages per hour                       D. 68 pages per hour

11) A recipe makes 24 servings and uses 6 cups of milk. How much milk per serving?

- A. 0.25 cups                       C. 1 cup  
 B. 0.5 cups                       D. 4 cups

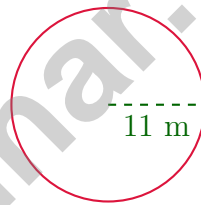


- 1) A cube net is shown in a cross pattern. The center square is labeled  $C$ , the four adjacent squares are labeled  $L$  (left),  $R$  (right),  $U$  (up),  $D$  (down). If there is one more square attached above  $U$ , which square is opposite to  $L$ ?



- A.  $C$ 
 C.  $D$   
 B.  $U$ 
 D.  $R$

**Large Circle**



- 2) A large circle has a radius of 11 meters. Using  $\pi \approx \frac{22}{7}$ , what is the approximate area?

- A.  $242 \text{ m}^2$ 
 C.  $486 \text{ m}^2$   
 B.  $380 \text{ m}^2$ 
 D.  $770 \text{ m}^2$

- 3) Which question is BEST written as a statistical question?

- A. What is the area of a rectangle with length 5 and width 3?  
 B. How many books are in our school library?  
 C. What is the average number of pages in novels written in the past 10 years?  
 D. Who is the principal of my school?

4) Which measure describes the SPREAD of a data set?

- A. Mean  C. Range  
 B. Median  D. Mode

5) Ice must stay below  $32^{\circ}\text{F}$ . What is the greatest whole-number temperature below 32?

6) A plant grows 2.5 cm, 3 cm, 2 cm, and 4.5 cm over four weeks. What is the mean growth per week?

- A. 2.5 cm  C. 3 cm  
 B. 2.75 cm  D. 3.5 cm

7) A box plot shows  $\text{min} = 20$ ,  $Q_1 = 30$ ,  $\text{median} = 40$ ,  $Q_3 = 50$ ,  $\text{max} = 70$ . How much longer is the upper whisker than the lower whisker?

- A. 10  C. 30  
 B. 20  D. 50

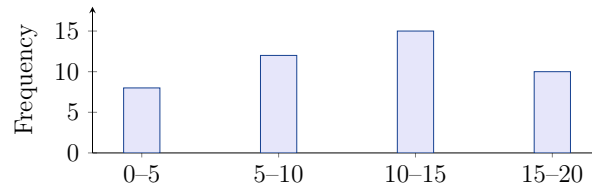
8) A teacher is deciding whether to report the mean or median test score to parents. The test scores for the class are: 65, 68, 70, 72, 75, 78, 80, 82, 85, 88, 92, 98. Which should be reported and why?

- A. Mean, because it uses all the data  C. Mean, because higher numbers look better  
 B. Median, because it better represents the typical student  D. Median, because it is always better than the mean



Scan me!  
For more practice  
& answers

- 1) A histogram with bins of width 5 shows data ranging from 0 to 20. If the frequencies are 8, 12, 15, 10, what does each frequency represent?



- A. The number of data points in each bin  
 B. The width of each bin  
 C. The midpoint of each bin  
 D. The average of the data
- 2) What is 0.43 as a percent?

- A. 4.3%  
 B. 43%  
 C. 0.43%  
 D. 430%

3)

Item	Original Price	Discount
Shirt	\$50	10%
Pants	\$80	15%

What is the discount amount on the pants?

- A. \$10  
 B. \$20  
 C. \$15  
 D. \$12



4) Marcus ran 1.5 miles. How many feet did Marcus run? (Use 1 mile = 5280 feet.)

- A. 3,540 feet                       C. 5,280 feet  
 B. 7,920 feet                       D. 10,560 feet

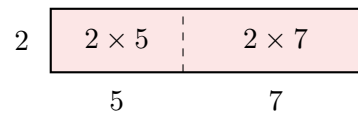
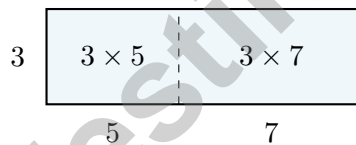
5) A family has a monthly income of \$3600. They allocate: 35% to rent, 15% to food, 10% to utilities. How much do they have remaining for other expenses?

- A. \$1080                               C. \$1440  
 B. \$1260                               D. \$1800

6) A gardener is arranging plants. They have 35 tomato plants and 49 pepper plants. They want to arrange them in rows with the same number of each type of plant per row, using all plants. How many rows can they make?

- A. 5 rows                               C. 35 rows  
 B. 49 rows                               D. 7 rows

7) Two area models are shown below. What is the **sum** of both total areas shown (every small rectangle)?



- A.  $3(5 + 7) + 2(5 + 7) = 60$                        C.  $3 \cdot 5 + 2 \cdot 7 = 29$   
 B.  $3(5 + 7) - 2(5 + 7) = 12$                        D.  $(3 + 2)(5 \times 7) = 175$



Scan me!  
For more practice  
& answers

## New York NYSTP Practice Test Answer Keys

**How to use this section with a Grade 6 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.**

Testinar.com



Scan me!  
For more practice  
& answers

## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice B is correct.** **(6.NS.6c)** Step 1: Rate is  $120 \div 2 = 60$  mph. Step 2: Distance in 5 hours is  $60 \times 5 = 300$  miles.
- Choice C is correct.** **(6.G.3)** For  $c = 12j$ , the line passes through  $(0, 0)$ ,  $(5, 60)$ ,  $(10, 120)$ , and  $(15, 180)$ . The constant rate is \$12 per jersey, so this represents a proportional relationship.
- Choice A is correct.** **(6.RP.1)** Selling price:  $\$80 + 25\% \text{ of } \$80 = \$80 + \$20 = \$100$ .
- Choice A is correct.** **(6.SP.2)** To find the drawing length from the actual length, divide by the scale:  $20 \div 5 = 4$  inches. The student's method is correct.
- Choice B is correct.** **(6.SP.5d)**  $\frac{7}{12} \times \frac{8}{7} = \frac{56}{84} = \frac{2}{3}$ .
- Choice A is correct.** **(6.SP.5d)** With 8 data points (even), the median is the average of the middle two values: positions 4 and 5. If the median is 67, then  $(\text{value}_4 + \text{value}_5)/2 = 67$ .
- Choice D is correct.** **(6.G.1)** A bar graph clearly shows the magnitude of rainfall for each day, making it easy to compare which days had more or less. Line graphs emphasize trends; pie charts show parts of whole; dot plots list individual values.
- Choice C is correct.** **(6.NS.3)** Blue is the 1-part amount, and it is 8 units. Yellow is 3 parts, so the yellow length is  $3 \times 8 = 24$  units.
- Choice D is correct.** **(6.EE.2b)** If  $\frac{3}{5}$  of the students play soccer, then  $\frac{2}{5}$  do not play soccer. The ratio compares soccer players to non-soccer players, so the ratio is 3 : 2.
- Choice C is correct.** **(6.EE.3)** Divide pages by time:  $45 \div \frac{3}{4} = 45 \times \frac{4}{3} = \frac{180}{3} = 60$  pages per hour.
- Choice A is correct.** **(6.G.4)**  $6 \div 24 = 0.25$  cups per serving.
- Choice C is correct.** **(6.NS.1)** Row A: 5 : 7 (correct). Row B: 10 : 14 = 5 : 7 (divide by 2, correct). Row C: 15 : 20 = 3 : 4 (not 5 : 7, incorrect). Row D: 20 : 28 = 5 : 7 (divide by 4, correct).
- Choice A is correct.** **(6.NS.7d)** On the graph with gallons on the x-axis and plants on the y-axis, the point  $(1, 4)$  means 1 gallon (x-value) corresponds to 4 plants watered (y-value). This shows the unit rate: 4 plants per gallon.
- Choice B is correct.** **(6.EE.1)** To convert a decimal to a percent, multiply by 100 (or move the decimal two places right).  $0.58 \times 100 = 58\%$ .
- Choice A is correct.** **(6.SP.8a)** 20% increase:  $0.20 \times 55 = 11$ . New price is  $\$55 + \$11 = \$66$ .
- Choice B is correct.** **(6.EE.2c)** Multiply:  $2 \times 8 = 16$  pints.
- Choice C is correct.** **(6.EE.6)** 15% of \$400 is  $0.15 \times 400 = \$60$ .
- The correct answer is The correct formula and calculation are**  $A = \frac{1}{2}(9 + 11) \times 6 = \frac{1}{2}(20)(6) = 60 \text{ in}^2$ . **(6.EE.5)** Statements A and B are both correct. Statement C is wrong because height is also needed. Statement D is wrong because height is a perpendicular distance, not the sum of the bases. Statement E gives  $120 \text{ in}^2$ , which is incorrect.
- Choice A is correct.** **(6.EE.8)**  $3,920 \div 20 = 196$ . The orchard needs 196 crates.
- Choice C is correct.** **(6.EE.9)** Reading the chart: the digit in the hundredths place is in the third column, which is 7.
- Choice A is correct.** **(6.NS.6)** Multiples of 6: 6, 12, 18, 24, 30, ... Multiples of 8: 8, 16, 24, 32, ... The least common multiple is 24.
- Choice A is correct.** **(6.G.1)** The GCF of 12 and 20 is 4. So  $12 + 20 = 4(3 + 5)$ . Choice B uses GCF 2, which is correct but not the greatest common factor. Choice A uses the greatest common factor.
- Choice C is correct.** **(6.G.2)** Negative integers represent values less than zero. A debt of \$8 means owing money, which is represented by  $-8$ .
- Choice B is correct.** **(6.RP.1)** Distance is a positive quantity. A number  $x$  units left of zero (at position  $-x$ ) has distance  $|-x| = x$  from zero.
- The correct answer is 3.** **(6.SP.5c)** From  $V = L \times W \times H$ :  $120 = 8 \times 5 \times H = 40 \times H$ , so  $H = 3$  ft.
- Choice A is correct.** **(6.SP.4)** On the number line,  $-\frac{1}{2}$  is to the right of  $-1$ , so it is greater. Check:  $-0.5 > -1$  is true.
- Choice A is correct.** **(6.SP.2)** Reflecting across the  $y$ -axis flips the  $x$ -coordinate to its opposite, giving  $(-a, b)$ .
- Choice A is correct.** **(6.SP.4)** The most negative value is the deepest.  $-800 < -600 < -450$ , so Sub A at  $-800$  ft is deepest.



Scan me!  
For more practice  
& answers

## Hi, Math Champion!

◇ You trained hard! 10 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Coach

# PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen problem-solving abilities, and reach their full potential.

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

## PERFECT FOR:

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

★ **CONFIDENCE TODAY.  
SUCCESS TOMORROW!**

## 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.



### Deepen Understanding

Reinforce key math concepts aligned with standards.



### Test Confidence

Get familiar with test formats and improve accuracy.



### Achieve Success

Build confidence and perform your best on test day.

## TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



## 2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



10 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS