

5

New York NYSTP

GRADE 6 MATH PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



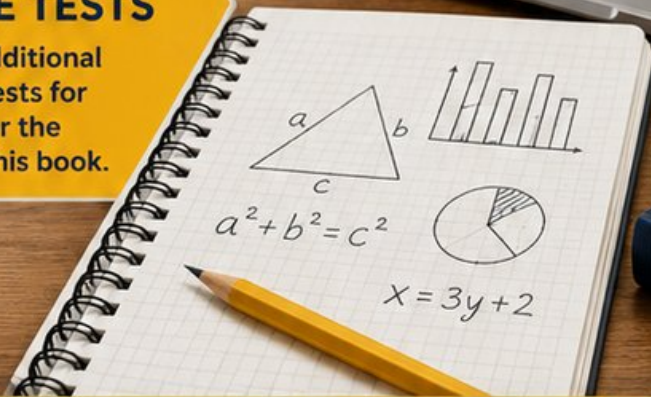
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



5 New York NYSTP Grade 6 Math Practice Tests

Standards-Aligned Focused Statewide Review for New York State Testing Program

$436 + 289$ $A = 24$

1 2 3 4 5 6 7 8

5×8 $\frac{5}{6}$

5

complete New York practice rounds

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

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Welcome, New York Math Explorer!

Eight focused rounds using focused statewide review

This book gives you five full Grade 6 practice tests for NYSTP. Each round uses city grids, river valleys, and upstate routes 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

Move with purpose: read every label, write the plan, and check that the answer fits.

Read

Plan

Check

How to Use This Book

A five-session routine for focused statewide review

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

New York review rhythm: Practice one round, review the busy spots, and bring a sharper routine to the next test.



What Is Inside?

Eight NYSTP tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Focused statewide review means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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1) Solve for x : $x - 5 = 12$

A. $x = 7$

C. $x = 17$

B. $x = 12$

D. $x = 19$

2)

Hours	1	2	3	4
Minutes	60	120	180	240

A movie is 2.5 hours long. Using the table pattern, how many minutes is this?

A. 120 minutes

C. 200 minutes

B. 150 minutes

D. 300 minutes

3) A recipe says: "For every 2 cups of flour there are 3 cups of sugar." Write this as a simplified numerical ratio of flour to sugar.

A. 2 : 3

C. 2 : 5

B. 3 : 2

D. 5 : 1

4) In which quadrant would the point $(-6, -8)$ be located?

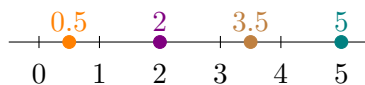
 A. Quadrant I

 C. Quadrant III

 B. Quadrant II

 D. Quadrant IV

5)



All shown numbers are in order. Which could be added between 2 and 3.5?

A. 1.5

C. 5.5

B. 3

D. 0.25



- 9) A spinner is divided into 5 equal sections. The probability of spinning a particular color is $\frac{1}{5}$ or 20%. If the spinner is spun 100 times, about how many times would you expect to land on that color?

- 10) A grocery store has two options for buying apples:

- Option A: 6 apples for \$4.80
- Option B: 8 apples for \$6.40

Which option has the lower unit price per apple?

- A. Both options cost the same per apple
- B. Option A has the lower unit price
- C. Option B has the lower unit price
- D. It is impossible to compare without more information

- 11) The ratio table shows the cost of different quantities of books.

Books	2	4	6
Cost	\$8	\$16	\$24

What is the unit price per book?

- A. \$2 per book
- B. \$4 per book
- C. \$6 per book
- D. \$8 per book

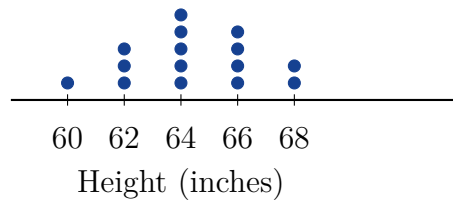


- 1) A garden has tomato plants and pepper plants in a ratio of 8 : 3. If there are 24 tomato plants, how many pepper plants are in the garden?
- A. 27 pepper plants C. 3 pepper plants
 B. 8 pepper plants D. 9 pepper plants
- 2) A data set has values: 2, 2, 5, 5, 5, 8, 8, 11. Find the range and IQR. Use the median-of-halves method and round the IQR to the nearest whole number.
- A. Range = 9, IQR = 4 C. Range = 11, IQR = 5
 B. Range = 5, IQR = 3 D. Range = 9, IQR = 5
- 3) A school has s students. It also has $s + 25$ staff members. If the school has 600 students, how many staff members does it have?

- 4) Solve for x : $\frac{x}{4} = 8$.



- 5) A dot plot shows student heights (in inches). The frequencies are: 60 in: 1; 62 in: 3; 64 in: 5; 66 in: 4; 68 in: 2. Which statement is false?



- A. The mode is 64 inches D. More than half the students are 66 inches or taller
 B. The total number of students is 15 C. The median height is 64 inches
- 6) The probability that a randomly selected student in a class plays soccer is $\frac{2}{3}$. If there are 24 students in the class, how many play soccer?
- A. 8 C. 16
 B. 12 D. 18
- 7) Using the temperature data from Question 5, what is the median temperature?
- A. 45°F C. 48°F
 B. 50°F D. 46°F
- 8) A chemistry lab recorded 520 observations. The circle graph shows $\frac{5}{26}$ were anomalies. How many observations were anomalies?
- A. 80 C. 100
 B. 90 D. 110



Scan me!
For more practice
& answers

New York NYSTP Practice Test Answer Keys

How to use this New York NYSTP answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to focused statewide review
3. rework the problem before reading the full explanation, using this reminder:
Move with purpose: read every label, write the plan, and check that the answer fits.

A calm New York correction routine turns every missed item into useful practice. Practice one round, review the busy spots, and bring a sharper routine to the next test.



New York Practice Test Answers and Explanations

Review the five printed NYSTP tests with purposeful, flexible, and ready for the next route habits.

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.EE.5)** Add 5 to both sides: $x = 12 + 5 = 17$.
- 2) **Choice B is correct.** **(6.RP.3d)** The table shows 1 hour = 60 minutes. For 2.5 hours: $2.5 \times 60 = 150$ minutes.
- 3) **Choice A is correct.** **(6.RP.1)** The phrase gives flour first and sugar second. So “for every 2 cups of flour there are 3 cups of sugar” translates directly to 2 : 3.
- 4) **Choice C is correct.** **(6.NS.6)** Both the x -coordinate and y -coordinate are negative, so the point is in Quadrant III (lower left).
- 5) **Choice B is correct.** **(6.NS.7d)** 3 is between 2 and 3.5 since $2 < 3 < 3.5$.
- 6) **Choice D is correct.** **(6.G.2)** $50 = L \times 2.5 \times 4 = L \times 10$, so $L = 5$ dm.
- 7) **Choice D is correct.** **(6.G.1)** Width: $10 - 3 = 7$ units. Height: $8 - 2 = 6$ units. Area = $7 \times 6 = 42$ square units.
- 8) **Choice D is correct.** **(6.RP.1)** Simplify 6 : 10 by dividing both parts by 2, giving 3 : 5. That means $\frac{3}{5}$ and 12 : 20 are equivalent forms, but 5 : 6 is not.
- 9) **The correct answer is 20.** **(6.SP.8a)** Expected number of spins = $0.2 \times 100 = 20$ times.
- 10) **Choice A is correct.** **(6.RP.3c)** Nice comparison: find each unit price. Option A is $4.80 \div 6 = 0.80$ dollars per apple, and Option B is $6.40 \div 8 = 0.80$ dollars per apple. Neither is lower; they cost the same per apple.
- 11) **Choice B is correct.** **(6.RP.3c)** From any column: $\$8 \div 2 = \4 per book. All columns confirm this unit rate.
- 12) **Choice D is correct.** **(6.RP.3a)** The ratio is 24 : 4 or 6 : 1. For 8 hours: $6 \times 8 = 48$ widgets.
- 13) **Choice B is correct.** **(6.RP.3a)** The unit cost is $\frac{\$0.80}{2 \text{ pencils}} = \0.40 per pencil. Verify: $\frac{\$1.60}{4} = \0.40 ✓.
- 14) **Choice A is correct.** **(6.RP.3c)** $0.006 \times 100 = 0.6\%$.
- 15) **Choice D is correct.** **(6.RP.3c)** Discount amount is $\$1200 - \$900 = \$300$. Percent discount is $\frac{300}{1200} = \frac{1}{4} = 0.25 = 25\%$.
- 16) **Choice B is correct.** **(6.RP.3)** Ratio 3 : 2 with red = 9 cans: each part is $9 \div 3 = 3$ cans. Blue paint: $2 \times 3 = 6$ cans.
- 17) **Choice B is correct.** **(6.NS.7d)** Sales tax: 6% of $\$10.50 = 0.06 \times 10.50 = \0.63 .
- 18) **Choice D is correct.** **(6.EE.9)** Ratios: $25/5 = 5$ and $40/8 = 5$ dollars per pound. The constant ratio confirms a proportional relationship with equation $c = 5p$. The line passes through the origin.
- 19) **The correct answer is IQR and middle 50%.** **(6.SP.5d)** (A) $IQR = Q3 - Q1 = 45 - 20 = 25$. (D) By definition, the middle 50% of data falls between $Q1$ and $Q3$. (B) is false because the box plot is not definitely symmetric. (C) is false because the range is $80 - 10 = 70$, not 75. (E) is false because $30 - 20 = 10$ while $45 - 30 = 15$, showing asymmetry.
- 20) **Choice C is correct.** **(6.EE.9)** Correct entertainment budget: 15% of $\$2000 = 0.15 \times 2000 = \300 . The parent allocated $\$400$ when it should be $\$300$.
- 21) **Choice C is correct.** **(6.RP.3)** Multiply the drawing width by the scale: $3.5 \times 4 = 14$ feet.
- 22) **Choice C is correct.** **(6.NS.1)** $\frac{11}{12} \times 3 = \frac{33}{12} = \frac{11}{4} = 2\frac{3}{4}$.
- 23) **Choice A is correct.** **(6.NS.2)** $8,064 \div 42 = 192$. Check: $42 \times 192 = 8,064$.
- 24) **Choice A is correct.** **(6.NS.3)** $3 \times 3 = 9$. We have $1 + 1 = 2$ decimal places total, so 0.09 is correct.
- 25) **The correct answer is 22.** **(6.SP.4)** Range = Max - Min = $44 - 22 = 22$.
- 26) **Choice A is correct.** **(6.NS.4)** $48 = 16 \times 3 = 2 \times 2 \times 2 \times 2 \times 3 = 2^4 \times 3$. Option B uses composite 6; C and D use composite factors.
- 27) **Choice A is correct.** **(6.NS.4)** GCF of 30 and 24 is $2 \times 3 = 6$. So $30 + 24 = 6(5 + 4)$.
- 28) **Choice D is correct.** **(6.NS.5)** 7°C colder means we subtract 7 from the starting temperature: $3 - 7 = -4^\circ\text{C}$.
- 29) **Choice C is correct.** **(6.NS.7c)** From -6 to 6 is $6 - (-6) = 6 + 6 = 12$ units apart.
- 30) **Choice C is correct.** **(6.NS.6c)** From 0 to 1 divided into quarters, the third quarter mark is at $\frac{3}{4}$.



Hi, Brave Explorer!

◇ What a trip! You explored 5 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 5 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.

Jay Daie

Your Math Trail Guide

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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STAY
FOCUSED



SOLVE
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SUCCEED
BRIGHTLY

PREPARE TODAY. **SUCCEED TOMORROW!**