

4 New York NYSTP

GRADE
6
MATH

PRACTICE TESTS





Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

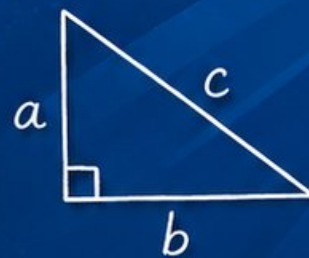
**PRINTED
TESTS** 

2

**ONLINE
TESTS** 

-  Build Confidence
-  Master Key Math Skills
-  Answer Explanations for Every Question
-  Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.**

4 New York NYSTP Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using focused statewide review

This book gives you four 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 four-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?

Four NYSTP tests, 160 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 and final stamina rounds with expressions, equations, geometry, data, and problem models.
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.



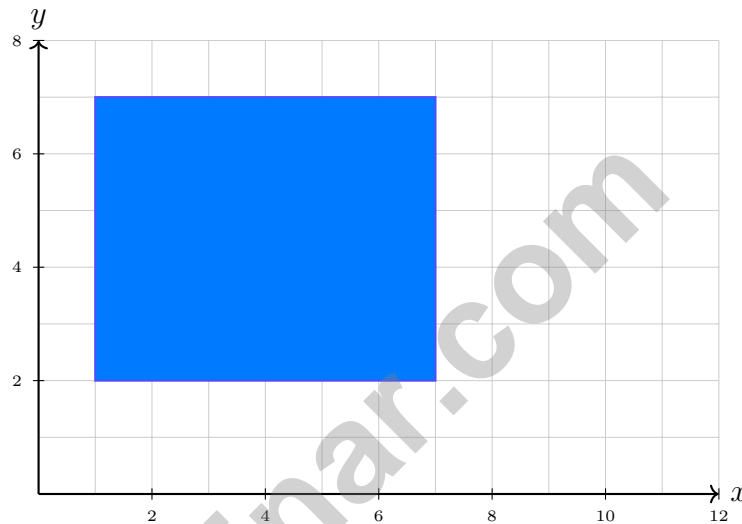
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& answers

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1) A student mistakenly plotted $(4, -3)$ in Quadrant III. What is the correct quadrant for this point?

- A. Quadrant I C. Quadrant III
 B. Quadrant II D. Quadrant IV



2)

What is the area of this rectangle?

- A. 24 square units C. 36 square units
 B. 30 square units D. 42 square units

3) The highest point in a state has an elevation of 6000 feet. The lowest point has an elevation of -500 feet. How many feet higher is the highest point than the lowest point?

- A. 5500 feet C. 5000 feet
 B. 6500 feet D. 6000 feet



4) Which expression with a negative number equals 10?

- A. $|-10|$ C. $|10|$
 B. The opposite of 10 D. -10

5) Which statement about the number line is FALSE?

- A. -0.2 is between -0.5 and 0.1 C. The distance from -2 to 3 is 5 units
 B. $-\frac{3}{10}$ is equivalent to -0.3 D. -1.5 is less than -1.4

6) A temperature of $-8^\circ F$ is compared to $-3^\circ F$. Which statement is correct?

- A. $-8^\circ F$ is warmer C. $-8^\circ F$ is colder
 B. $-3^\circ F$ is colder D. They are the same temperature

7) If a triangle has an area of 54 in^2 and a height of 9 inches, what is the length of the base?

- A. 6 in C. 27 in
 B. 48 in D. 12 in

8) In a group of 200 people, 50 are left-handed. What percent are left-handed?

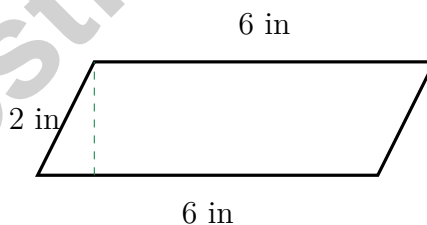
9) Box X: 5 ft by 2 ft by 3 ft. Box Y: 4 ft by 2 ft by 4 ft. Which box has greater volume and by how much?

- A. Box X by 1 ft^3 C. Box X by 2 ft^3
 B. Box Y by 1 ft^3 D. Box Y by 2 ft^3



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- 10) A student plots a rectangle and claims it has vertices at $(2, 2)$, $(5, 2)$, $(5, 5)$, and $(3, 5)$. What is the error?
- A. The shape is not a rectangle because the sides are not parallel.
- B. The y -coordinates are wrong.
- C. The shape is a rectangle but with incorrect dimensions.
- D. There is no error.
- 11) A student is trying to identify which face is missing from an incomplete cube net. The net shows 5 faces: a center square, with four squares attached to the four sides. Which position should the 6th face be attached to form a valid cube net?
- A. One of the four outer sides of the outer squares
- B. Any position that adds 1 face
- C. Directly above one of the outer squares
- D. It cannot form a valid cube net with only one more face
- 12) The area of a triangle is $A = \frac{1}{2}bh$. Find A when $b = 6$ and $h = 8$.
- A. 14
- B. 96
- C. 48
- D. 24



- 13) What is the area of the parallelogram?

- A. 8 in^2
- B. 12 in^2
- C. 16 in^2
- D. 24 in^2



1) In a parking lot, there are 6 red cars and 9 blue cars. If we describe this as “for every 2 red cars there are ___ blue cars,” what number fills the blank?

A. 2

C. 6

B. 9

D. 3

2) A scientist wants to study the sleeping habits of sixth graders. She surveyed 50 sixth graders. What is true about this study?

A. The population is all 50 sixth graders surveyed.

C. The population is the 50 sixth graders; there is no sample.

B. Both the population and sample are all sixth graders in the world.

D. The sample is the 50 sixth graders surveyed.

3) Class A scored a mean of 82 on a test; Class B scored a mean of 76 on the same test. Which statement is best supported by the data?

A. Every student in Class A scored higher than every student in Class B.

C. Class B had more students than Class A.

B. Class A's typical score was higher than Class B's.

D. The two classes had identical performance.

4) A bag contains only red and green marbles. There are 12 red marbles and the probability of drawing red is $\frac{3}{5}$. How many marbles are in the bag altogether?

A. 15

C. 20

B. 18

D. 25

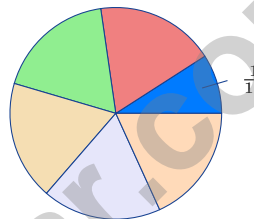


5) A weather station records daily humidity (as a percent):

Stem	Leaf
5	8, 9
6	1, 2, 5, 7
7	0, 3, 8
8	2, 5, 9

Approximately what percent of readings were between 60% and 79%?

- A. 40% C. 60%
 B. 50% D. 70%



6)

A movie theater has 550 patrons. The circle graph shows $\frac{1}{11}$ bought popcorn. How many bought popcorn?

- A. 50 C. 60
 B. 40 D. 70

7) A box plot for a dataset shows: minimum 15, Q1 30, median 45, Q3 60, maximum 85.

What does the length of the box represent?

- A. The interquartile range (IQR) C. The distance from minimum to median
 B. The entire range of data D. The standard deviation



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1)

Account	Balance
Checking	\$150
Savings	\$320
Loan	-\$200

Which account has the least amount?

- A. Checking C. Loan
 B. Savings D. All equal

2) A school's budget is \$100000. The principal allocates 25% of the budget to technology. How many dollars are allocated to technology?

3) Evaluate: $1\frac{1}{3} \div \frac{2}{5}$

- A. $\frac{10}{11}$ C. $3\frac{1}{3}$
 B. $\frac{8}{15}$ D. $2\frac{1}{4}$

4) What is $4,368 \div 21$?

- A. 206 C. 212
 B. 208 D. 216



5) A backpack costs \$34.50. You have a coupon for \$7.25 off. How much will you pay?

- A. \$27.25 C. \$41.75
 B. \$26.25 D. \$27.50

6) A teacher wants to divide 24 students into equal groups with no students left over. Which group size is NOT possible?

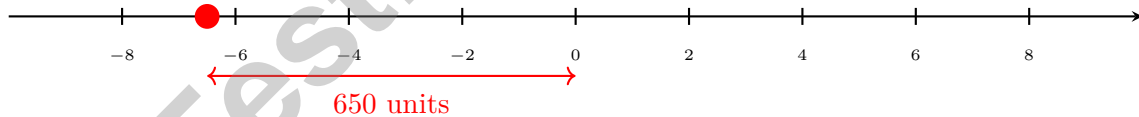
- A. 3 students per group C. 6 students per group
 B. 8 students per group D. 5 students per group

7) What is the GCF of 9 and 12?

- A. 2 C. 4
 B. 6 D. 3

8) Which of these situations would be represented by a negative integer?

- A. Climbing a mountain 200 meters C. Swimming down 5 meters below the surface
 B. A temperature increase of 10° D. Earning 50 dollars



9)

A submarine is 650 feet below sea level. Which expression represents this depth using absolute value?

- A. $|-650|$ C. -650
 B. $|650|$ D. 650



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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.



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New York Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.NS.6)** The point $(4, -3)$ has a positive x -coordinate and negative y -coordinate, placing it in Quadrant IV (lower right). The student likely confused the quadrants.
- 2) **Choice B is correct.** **(6.G.1)** Width: $7 - 1 = 6$ units. Height: $7 - 2 = 5$ units. Area = $6 \times 5 = 30$ square units.
- 3) **Choice B is correct.** **(6.NS.5)** The difference in elevation is $6000 - (-500) = 6000 + 500 = 6500$ feet.
- 4) **Choice A is correct.** **(6.NS.7c)** $|-10| = 10$ because absolute value is distance from zero.
- 5) **Choice D is correct.** **(6.NS.6c)** Statement D is false. -1.5 is actually LESS than -1.4 (further to the left on the number line). The others are all true.
- 6) **Choice C is correct.** **(6.NS.7d)** $-8 < -3$, so $-8^\circ F$ represents a lower (colder) temperature.
- 7) **Choice D is correct.** **(6.G.1)** $54 = \frac{1}{2} \times b \times 9 \Rightarrow b = 12$ in.
- 8) **The correct answer is 25%.** **(6.RP.3c)** $\frac{50}{200} = \frac{25}{100} = 25\%$ (divide both by 2).
- 9) **Choice D is correct.** **(6.G.2)** Box X: $V = 5 \times 2 \times 3 = 30$ ft³. Box Y: $V = 4 \times 2 \times 4 = 32$ ft³. Difference: $32 - 30 = 2$ ft³, with Box Y being larger.
- 10) **Choice A is correct.** **(6.G.3)** The vertices $(2, 2)$, $(5, 2)$, $(5, 5)$, and $(3, 5)$ do not form a rectangle. The bottom side goes from $x = 2$ to $x = 5$ (length 3), but the top side goes from $x = 3$ to $x = 5$ (length 2). The sides are not parallel, so it is not a rectangle.
- 11) **Choice A is correct.** **(6.G.4)** A 5-square net (center + 4 adjacent) needs exactly 1 more face. Attaching it to any of the outer edges of the 4 surrounding squares will complete a valid cube net (e.g., a T-shape or an extended cross).
- 12) **Choice D is correct.** **(6.EE.2c)** Substitute $b = 6$ and $h = 8$: $A = \frac{1}{2}(6)(8) = \frac{48}{2} = 24$ square units.
- 13) **Choice B is correct.** **(6.G.1)** Area = $6 \times 2 = 12$ in².
- 14) **Choice C is correct.** **(6.SP.2)** Skewed distributions have extreme outliers that pull the mean away from the median. Symmetric distributions have nearly equal mean and median.
- 15) **Choice B is correct.** **(6.RP.1)** $IQR = Q_3 - Q_1 = 18 - 10 = 8$.
- 16) **Choice B is correct.** **(6.NS.7d)** Interest: $I = \$800 \times 0.025 \times 1 = \20 . Total: $\$800 + \$20 = \$820$.
- 17) **The correct answer is 25%.** **(6.RP.3c)** Increase is $93.75 - 75 = 18.75$. Percent increase is $\frac{18.75}{75} = 0.25 = 25\%$.
- 18) **The correct answer is 32.** **(6.RP.3)** Unit cost: $8 \div \frac{1}{4} = 8 \times 4 = 32$ dollars per gallon.
- 19) **The correct answer is The unit rate is 25 items per hour, and the y-value when x = 1 is 25.** **(6.RP.3a)** A is correct because $50 \div 2 = 25$ items per hour. D is correct because when $x = 1$, $y = 25$. Choice B is false for a proportional relationship, Choice C should be $y = 25x$, and Choice E is false.
- 20) **Choice B is correct.** **(6.EE.9)** For constant $k = 2.5$: $y/x = 2.5$. When $x = 6$: $y/6 = 2.5$, so $y = 6 \times 2.5 = 15$.
- 21) **Choice C is correct.** **(6.EE.9)** Save allocation: 10% of $\$4000 = 0.10 \times 4000 = \400 .
- 22) **Choice C is correct.** **(6.RP.3)** Actual dimensions: $5 \times 2 = 10$ m and $3 \times 2 = 6$ m. Perimeter: $2(10 + 6) = 32$ m.
- 23) **Choice B is correct.** **(6.NS.1)** Rewrite $1\frac{1}{4}$ as $\frac{5}{4}$, then multiply by the reciprocal $\frac{6}{5}$: $\frac{6}{5} \times \frac{5}{4} = \frac{30}{20} = \frac{3}{2}$. Student A's $\frac{15}{20}$ simplifies to $\frac{3}{4}$, which doesn't match.
- 24) **Choice A is correct.** **(6.NS.2)** $7,328 \div 32 = 229$. Check by multiplying back: $32 \times 229 = 7,328$, so the division is exact.
- 25) **The correct answer is 12.** **(6.RP.3d)** Divide: 96 fl oz \div 8 fl oz/cup = 12 cups.
- 26) **Choice A is correct.** **(6.NS.3)** Multiply both by 10: $72 \div 8 = 9$.
- 27) **Choice A is correct.** **(6.NS.4)** Following the tree: $60 = 6 \times 10 = (2 \times 3) \times (2 \times 5) = 2 \times 2 \times 3 \times 5 = 2^2 \times 3 \times 5$.



Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 4 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

4 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

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

WHAT YOU'LL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



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

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