

8

New York NYSTP

GRADE 6

MATH PRACTICE TESTS

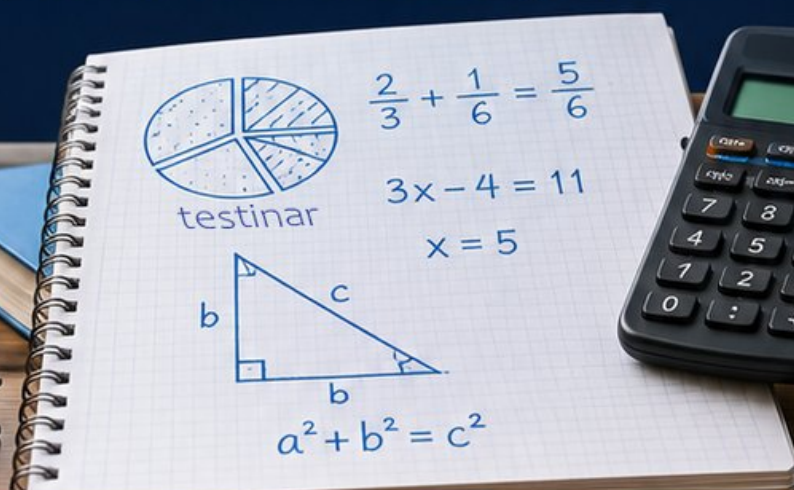
8
PRINTED
TESTS

+

2
ONLINE
TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 New York NYSTP Grade 6 Math Practice Tests

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



Eight 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.

Jay Daie and Reza Nazari



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Welcome, New York Math Explorer!

Eight focused rounds using focused statewide review

This book gives you eight 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 eight-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 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–8	Final stamina rounds 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.

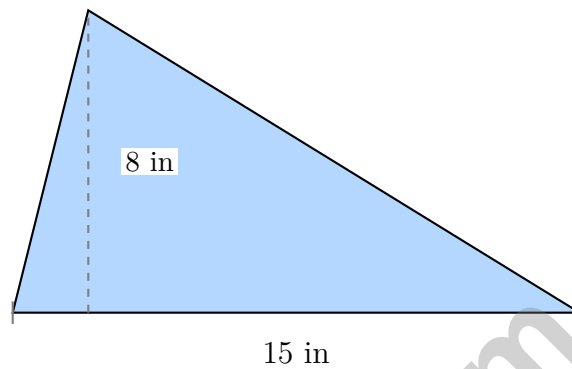


Scan me!
For more practice
& answers

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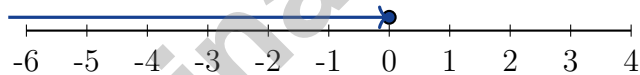
★ Practice Test 1	_____	14
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- 1) An obtuse triangle has a base of 15 inches and a perpendicular height of 8 inches measured from the opposite vertex to the extended base line. What is the area?

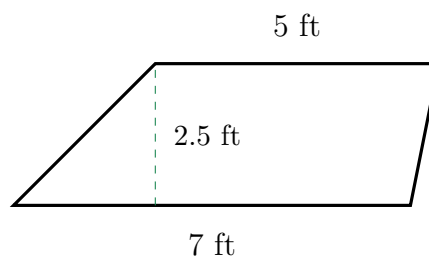


- A. 60 in² C. 23 in²
 B. 30 in² D. 120 in²

- 2) Which number line represents $x \leq 0$?



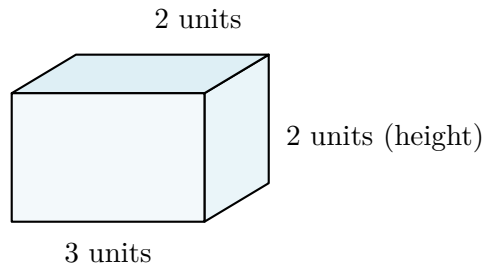
- A. Open circle at 0, arrow left C. Open circle at 0, arrow right
 B. Closed circle at 0, arrow right D. Closed circle at 0, arrow left



- 3)

What is the area of the trapezoid with bases 7 ft and 5 ft and height 2.5 ft?

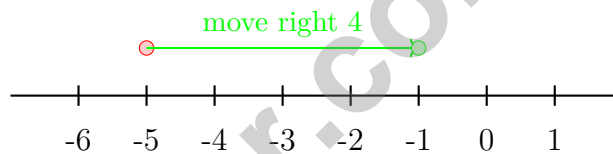
- A. 14.5 ft² C. 17.5 ft²
 B. 30 ft² D. 15 ft²



4)

How many unit cubes fit in this rectangular prism?

- A. 7 unit cubes C. 18 unit cubes
 B. 12 unit cubes D. 24 unit cubes

5) Which number line correctly shows $-5 - (-4) = -1$?

Correct model: Start at -5 , move right 4 units to -1 .

- A. Model shown is correct C. Model should start at 0
 B. Model should move left instead D. Model should end at -9
- 6) A student recorded the average temperature change. It dropped 3° every 2 hours for 8 hours. What was the total change?
- A. -12° C. 12°
 B. -8° D. 8°



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7) Which expression correctly translates “5 more than the quotient of a number y and 4”?

A. $5 + \frac{y + 4}{y}$

B. $\frac{y + 5}{4}$

C. $\frac{y}{4} + 5$

D. $4 + y - 5$

8) Maria starts with 20 dollars and earns 12 dollars per hour. Her total money is $20 + 12h$ where h is hours worked. What does the constant 20 represent?

 A. The amount earned per hour B. The hours worked C. The starting amount D. The total earned

9) Joel is y years old. His sister is 4 years older than Joel. Which expression represents the sister’s age?

A. $y - 4$

B. $y + 4$

C. $4y$

D. $\frac{y}{4}$

10) The table below shows the relationship between the number of pizzas ordered and the total cost.

Pizzas (p)	2	4	6	8
Total Cost (C)	\$18	\$36	\$54	\$72

What is the rule that relates cost C to the number of pizzas p ?

A. $C = 8p$

B. $C = 12p$

C. $C = 10p$

D. $C = 9p$



1) Which of these is a statistical question?

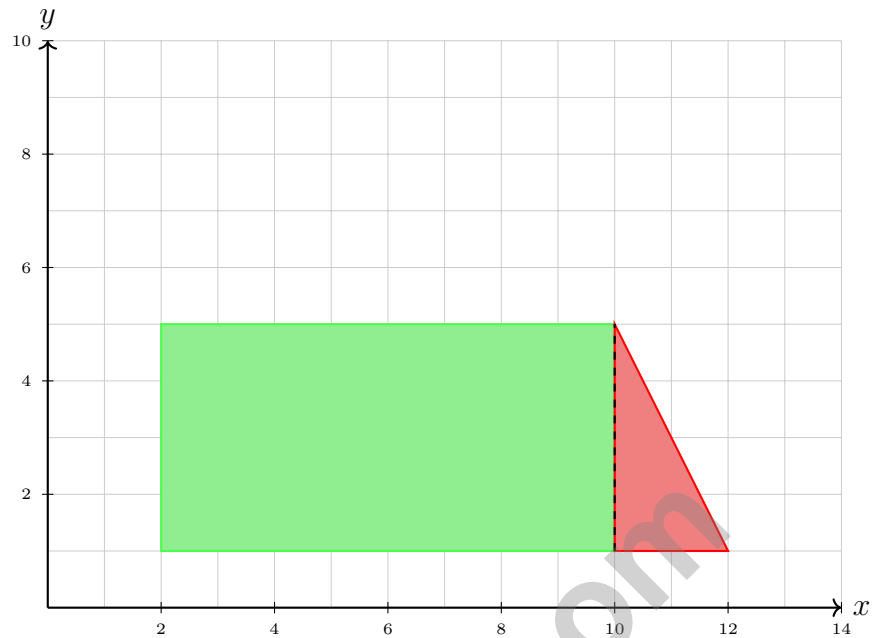
- A. How tall am I?
- B. What is the capital of Texas?
- C. How many minutes do students in my class spend on homework each night?
- D. How many days are in a year?

2) A student's quiz scores are 78, 82, 85, 88. If the student gets a 95 on the next quiz, what is the new mean?

- A. 85.6
- B. 86
- C. 86.4
- D. 87



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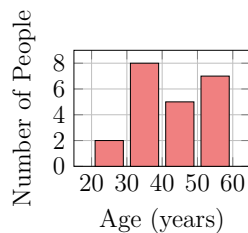


3)

A composite figure consists of a rectangle and a triangle. The rectangle has corners at $(2, 1)$, $(10, 1)$, $(10, 5)$, and $(2, 5)$. The triangle has vertices at $(10, 1)$, $(12, 1)$, and $(10, 5)$. What is the total area?

- A. 36 square units
- B. 40 square units
- C. 44 square units
- D. 48 square units

4) A histogram displays the ages of people attending a community event. Which interval has the fewest attendees?



- A. 20–30 years
- B. 30–40 years
- C. 40–50 years
- D. 50–60 years

- 5) An error was made: a student computed $(-3) \times (-4) \times 2$ and got -24 . What is the correct answer?
- A. -24 (student is correct) C. 9 (student added the negatives)
 B. 24 (student forgot a sign rule) D. 7 (student subtracted)
- 6) An online account shows a credit of \$72. A charge of \$88 is applied. What is the new account status?
- A. \$160 credit C. \$16 debit (negative)
 B. \$16 credit D. \$160 debit
- 7) In the expression $3xy + 5z + 8$, which statement is true?
- A. The coefficient of z is $5z$. C. The only constant term is $3xy$.
 B. There are 3 terms and 1 constant term. D. The factors of $3xy$ include 3, x , and y .
- 8) Which expression is equivalent to $10(2y + 1)$?
- A. $20y + 1$ C. $2y + 10$
 B. $12y + 11$ D. $20y + 10$
- 9) Which inequality has the same meaning as “the difference is less than 5”?
- A. $d \geq 5$ C. $d < 5$
 B. $d \leq 5$ D. $d > 5$
- 10) The equation $s = 3.5t$ describes the relationship between distance s (in miles) and time t (in hours). What does 3.5 represent?
- A. Time in hours C. Speed in miles per hour
 B. Distance in miles D. Number of minutes



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.



Scan me!
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& answers

New York Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice A is correct.** **(6.G.1)** Even for obtuse triangles, $A = \frac{1}{2}bh = \frac{1}{2} \times 15 \times 8 = 60 \text{ in}^2$.
- Choice D is correct.** **(6.EE.8)** $x \leq 0$ includes 0 (closed circle) and all numbers less than 0 (arrow points left).
- Choice D is correct.** **(6.G.1)** Area = $\frac{1}{2}(7+5) \times 2.5 = \frac{1}{2}(12)(2.5) = 15 \text{ ft}^2$.
- Choice B is correct.** **(6.G.2)** Volume = $3 \times 2 \times 2 = 12$ unit cubes.
- Choice A is correct.** **(6.NS.3)** $-5 - (-4) = -5 + 4 = -1$. Subtracting a negative means adding its opposite. Start at -5 , move right 4 units to -1 .
- Choice A is correct.** **(6.NS.3)** In 8 hours, there are 4 periods of 2 hours. Change: $(-3) \times 4 = -12^\circ$.
- Choice C is correct.** **(6.EE.2a)** “The quotient of y and 4” is $\frac{y}{4}$. “5 more than” that quotient means add 5: $\frac{y}{4} + 5$.
- Choice C is correct.** **(6.EE.2b)** The constant 20 does not depend on h and represents the initial amount before earning anything.
- Choice B is correct.** **(6.EE.6)** “4 years older” means add 4 to Joel’s age: $y + 4$.
- Choice D is correct.** **(6.EE.9)** Each pizza costs \$9. Check: when $p = 2$, $C = 9(2) = 18$; when $p = 4$, $C = 9(4) = 36$. The rule is $C = 9p$.
- Choice A is correct.** **(6.NS.6)** Translate: $(-4, 6) \rightarrow (-4 + 4, 6 - 3) = (0, 3)$.
- Choice C is correct.** **(6.SP.2)** The population is the entire group of interest: all sixth graders. A sample would be the subset of sixth graders who actually answered the survey.
- Choice A is correct.** **(6.SP.5c)** Distances: $|5 - 7.5| = 2.5$, $|6 - 7.5| = 1.5$, $|7 - 7.5| = 0.5$, $|7 - 7.5| = 0.5$, $|8 - 7.5| = 0.5$, $|8 - 7.5| = 0.5$, $|9 - 7.5| = 1.5$, $|10 - 7.5| = 2.5$. Sum = 10. MAD = $10/8 = 1.25$.
- Choice C is correct.** **(6.SP.4)** The value 5 appears 4 times, which is more than any other value, making it the mode.
- Choice C is correct.** **(6.SP.4)** With 2-digit stem: stem 11 (112, 115, 118) and stem 12 (121, 124, 125). Stem 12 has 3 leaves: 1, 4, 5.
- The correct answer is 32.** **(6.EE.8)** No more than 32 means 32 is the maximum allowed value.
- Choice D is correct.** **(6.NS.1)** 19% of 720 is $0.19 \times 720 = 136.8 \approx 137$ visitors.
- Choice C is correct.** **(6.SP.4)** Students scoring 70–80 (8) + 80–90 (4) = 12 students. Total students = $2 + 5 + 8 + 4 + 1 = 20$. Percentage = $\frac{12}{20} = 0.6 = 60\%$.
- Choice C is correct.** **(6.RP.1)** Simplify the tricky choice: 6 : 8 becomes 3 : 4, not 2 : 3. The other choices all match 2 : 3 in ratio or fraction form.
- Choice D is correct.** **(6.RP.1)** Almonds are the 4-part amount, and $12 \div 4 = 3$, so each part is 3 oz. Raisins are $3 \times 3 = 9$ oz and chips are $5 \times 3 = 15$ oz; together that is 24 oz.
- Choice D is correct.** **(6.RP.3c)** The unit rate is $80 \div 5 = 16$ meters per minute. For 320 meters: $320 \div 16 = 20$ minutes.
- The correct answer is Comparing rational numbers on a number line.** **(6.NS.6c)** Statement B is correct: $-0.6 > -0.8$. Statement D is correct: $\frac{1}{5} = 0.2 < \frac{2}{5} = 0.4$. Statement A is false: $-\frac{3}{4} = -0.75 < -0.5$, so $-\frac{3}{4}$ is actually less than $-\frac{1}{2}$. Statement C is false: $-2.1 < -1.9$ (more negative is smaller). Statement E is false: $-1.5 < -1$.
- Choice C is correct.** **(6.RP.3c)** From the double number line: 18 liters in 3 minutes gives $18 \div 3 = 6$ liters per minute.
- Choice B is correct.** **(6.RP.3c)** A 10×10 grid has 100 squares. A percent is a ratio out of 100. So 35 out of 100 squares shaded = $\frac{35}{100} = 35\%$.
- The correct answer is 26.** **(6.G.3)** Length = $10 - 1 = 9$ units; width = $4 - 1 = 3$ units. Perimeter = $2(9+3) = 2(12) = 26$ units.



Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 8 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 8 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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



**PRACTICE TODAY.
SUCCEED 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.



Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS