

GRADE

6

MATH

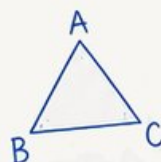
6

New York NYSTP

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 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



6 PRINTED TESTS +2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills



SUCCEED

Build confidence and achieve your best

6 New York NYSTP Grade 6 Math Practice Tests

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



Six 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 six 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 six-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 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

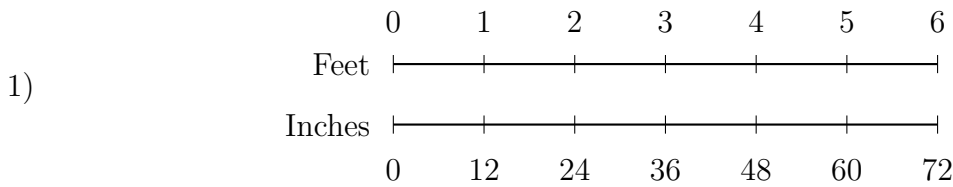
The tests are mixed on purpose. Focused statewide review means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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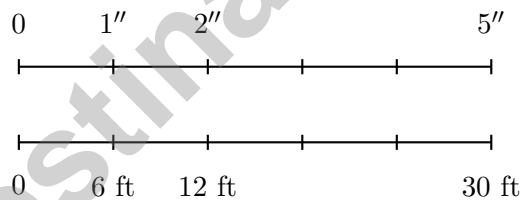


Based on the double number line, what is the rate in inches per foot?

- A. 6 inches per foot
 - B. 8 inches per foot
 - C. 24 inches per foot
 - D. 12 inches per foot
- 2) Solve for x : $x - 8 = 6$

- A. $x = 2$
- B. $x = 6$
- C. $x = 14$
- D. $x = 48$

- 3) A double number line shows the relationship between drawing measurements and actual distances.



According to the double number line, 3 inches on the drawing represents how many feet?

- A. 12 feet
- B. 15 feet
- C. 18 feet
- D. 24 feet

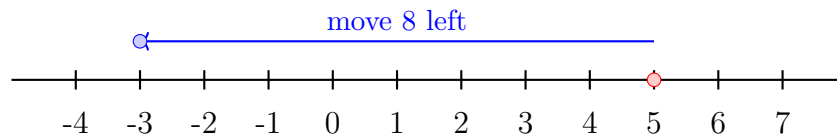


- 4) A classmate subtracts and writes $9.4 - 3.8 = 5.6$. Which statement is true?
- A. The work is correct; 5.6 matches the subtraction.
- B. Decimals cannot be subtracted unless you line up the \$ symbol.
- C. Because $9 > 5$, no borrowing is allowed.
- D. Subtracting decimals always lowers the quotient.
- 5) Which pair of numbers has a GCF of 5?
- A. 15 and 25
- B. 10 and 20
- C. 12 and 20
- D. 14 and 35
- 6) A school is making care packages. They have 54 pencils and 72 erasers to distribute equally among students with no items left over. What is the greatest number of students who can receive a package?
- A. 6
- B. 9
- C. 18
- D. 27
- 7) A city is at an elevation of 2050 feet above sea level. Its opposite elevation would be:
- A. -2050 feet
- B. $|2050|$ feet
- C. 2050 feet
- D. 4100 feet
- 8) On a number line, which pair of numbers are NOT equidistant from zero?
- A. -2.5 and 2.5
- B. $-\frac{3}{4}$ and $\frac{3}{4}$
- C. -1.2 and 1.3
- D. -0.8 and 0.8



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9) Use the number line to find $5 + (-8)$.



- A. -13 C. 3
 B. -3 D. 13

10) After simplifying $4x + 7 + 2x - 3$, what is the coefficient of x ?

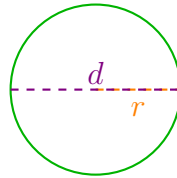
11) A savings account earns \$15 per month. After 8 months, how much more money is in the account?

- A. \$7 C. \$120
 B. \$23 D. -\$120

12) A town's elevation is 350 meters. A nearby valley is 120 meters lower. What is the valley's elevation?

- A. -230 meters C. 470 meters
 B. 230 meters D. -470 meters





Relationship: $d = 2r$

1)

If the radius of a circle is 9 inches, what is the diameter?

- A. 4.5 inches C. 18 inches
 B. 9 inches D. 81 inches

2) A lottery picks one number from 1 to 100. What is the probability of picking a number that is a multiple of 10?

- A. $\frac{1}{100}$ C. $\frac{1}{5}$
 B. $\frac{1}{10}$ D. $\frac{1}{2}$

3) A researcher plots reaction times (in milliseconds) for 11 participants:

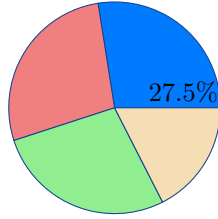
Stem	Leaf
20	2, 5, 7
21	1, 3, 6, 8
22	0, 4, 6, 9

What is the median reaction time?

- A. 213 ms C. 218 ms
 B. 216 ms D. 220 ms



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4)

A survey asked 360 people about favorite season. The circle graph shows 27.5% prefer summer. How many people prefer summer?

 A. 99 C. 108 B. 90 D. 117

5) To make “How old am I?” statistical, should the question ask about one person or a group?



1) What is the LCM of 10 and 15?

- A. 30 C. 40
 B. 25 D. 150

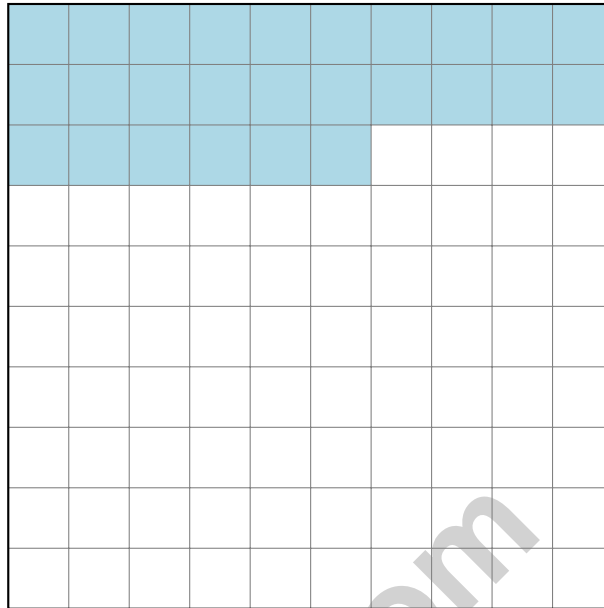
2) Which two statements both describe the same ratio?

- Statement X: The ratio is 5 : 15.
 Statement Y: For every 1 apple there are 3 oranges.
- A. Only Statement X is correct. D. The statements describe different ratios.
 B. Only Statement Y is correct.
 C. Both statements describe the same ratio.

3) A car travels 225 miles on 9 gallons of gas. What is the fuel efficiency in miles per gallon?

- A. 20 miles per gallon C. 25 miles per gallon
 B. 22 miles per gallon D. 45 miles per gallon



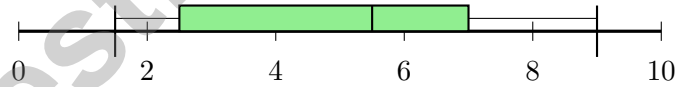


4)

What percent of the grid is shaded?

- A. 26%
- C. 74%
- B. 30%
- D. 42%

5) Which value represents Q_1 in the box plot shown?



- A. 1.5
- C. 5.5
- B. 2.5
- D. 9

6) A dataset has a mean of 50 and a median of 48. Which statement is most likely true?

- A. The data is symmetric with no outliers.
- C. There are some small values pulling the mean lower than the median.
- B. There are some large values pulling the mean higher than the median.
- D. The range must be less than 10.



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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 six 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.RP.3c** From the double number line, 1 foot equals 12 inches. This is the standard conversion rate.
- 2) **Choice C is correct.** **6.EE.5** Add 8 to both sides: $x + 8 = 14$.
- 3) **Choice C is correct.** **6.RP.3** The pattern shows $1'' = 6$ ft. So $3'' = 3 \times 6 = 18$ ft.
- 4) **Choice A is correct.** **6.NS.3** Stack the decimals, subtract tenths then ones (borrowing quietly if needed), and you land on 5.6—no drama needed.
- 5) **Choice A is correct.** **6.NS.4** Factors of 15: 1, 3, 5, 15. Factors of 25: 1, 5, 25. Common factors: 1, 5. GCF is 5. For option B, GCF is 10; for C, GCF is 4; for D, GCF is 7.
- 6) **Choice C is correct.** **6.NS.4** Find GCF(54, 72). Factors of 54: 1, 2, 3, 6, 9, 18, 27, 54. Factors of 72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72. GCF is 18. Each student gets 3 pencils and 4 erasers.
- 7) **Choice A is correct.** **6.NS.7c** The opposite of 2050 is -2050 , representing 2050 feet below the reference point.
- 8) **Choice C is correct.** **6.NS.6c** $|-1.2| = 1.2$ and $|1.3| = 1.3$ are not equal, so they are not equidistant from zero.
- 9) **Choice B is correct.** **6.NS.3** Start at 5 on a number line and move 8 units left. The result is $5 + (-8) = -3$.
- 10) **The correct answer is 6.** **6.EE.3** Combine like terms: $4x + 2x = 6x$.
- 11) **Choice C is correct.** **6.NS.3** Earning \$15 per month for 8 months: $15 \times 8 = 120$. The account gains \$120.
- 12) **Choice B is correct.** **6.EE.3** The valley is 120 meters lower: $350 - 120 = 230$ meters.
- 13) **Choice A is correct.** **6.EE.2a** “Twice a number d ” is $2d$. “8 less than $2d$ ” means subtract 8 from $2d$: $2d - 8$.
- 14) **Choice A is correct.** **6.EE.2b** In the term $0.75p$, the coefficient 0.75 is the unit rate (cost per pen). The variable p is multiplied by this rate.
- 15) **Choice C is correct.** **6.EE.6** $v + 15$ means add \$15 to the original price v .
- 16) **Choice D is correct.** **6.EE.8** “At least 10” means $x \geq 10$, which includes the value 10. But $x > 10$ excludes 10, so D is not equivalent.
- 17) **Choice D is correct.** **6.EE.8** “Taller than” (strictly greater) means $h > 48$, not $h \geq 48$.
- 18) **Choice C is correct.** **6.G.3** The base is horizontal from $(0, 0)$ to $(6, 0)$. Length = $6 - 0 = 6$ units.
- 19) **The correct answer is Housing and Food are correctly calculated.** **6.EE.9** A: Housing is $40\% \times 2500 = \$1000$. Correct. B: Food is $24\% \times 2500 = \$600$. Correct. C: Utilities is $10\% \times 2500 = \$250$, not \$200. Incorrect. D: Transportation is $12\% \times 2500 = \$300$, not \$250. Incorrect. E: Savings is $14\% \times 2500 = \$350$, not \$400. Incorrect.
- 20) **Choice A is correct.** **6.G.4** A rectangular prism with dimensions $3 \times 4 \times 5$ has faces: two 3×4 , two 3×5 , and two 4×5 . This matches the net description exactly.
- 21) **Choice B is correct.** **6.NS.6** Reflection over the x -axis negates the y -coordinate: $(-2, 3) \rightarrow (-2, -3)$.
- 22) **Choice B is correct.** **6.RP.1** The diameter passes through the center and is $d = 2r$. Choices A and C are incorrect; choice D reverses the relationship.
- 23) **Choice A is correct.** **6.SP.5c** For 6 values, the median is between positions 3 and 4 (values 8 and 10, median = 9). Lower half: 4, 6, 8. $Q1 = 6$. Upper half: 10, 12, 14. $Q3 = 12$.
- 24) **Choice A is correct.** **6.SP.4** Count the dots stacked above each value. The tallest stack is at 6 hours with 5 dots, which is more than at any other value, so 6 hours is the mode.
- 25) **Choice A is correct.** **6.SP.8a** Probability of failure = $1 - 0.85 = 0.15$.
- 26) **Choice C is correct.** **6.SP.4** Data values range from 45 to 63, spanning the 40s, 50s, and 60s. Three stems are needed.
- 27) **Choice A is correct.** **6.NS.1** $33\frac{1}{3}\%$ of 420 is $\frac{1}{3} \times 420 = 140$ members.
- 28) **Choice D is correct.** **6.SP.4** With 50 continuous numerical values, a histogram groups them into intervals (e.g., 0–10, 11–20, etc.) to show the distribution pattern. A bar graph for each individual height would be too crowded; circle and pictographs don’t display numerical distributions.



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Math Detective at Work

Hi, Math Detective!

◇ You did such a great job! You finished 6 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

PRACTICE TODAY. SUCCEED TOMORROW!

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 6 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

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

6
PRINTED
TESTS

+
2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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.



Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar 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

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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS