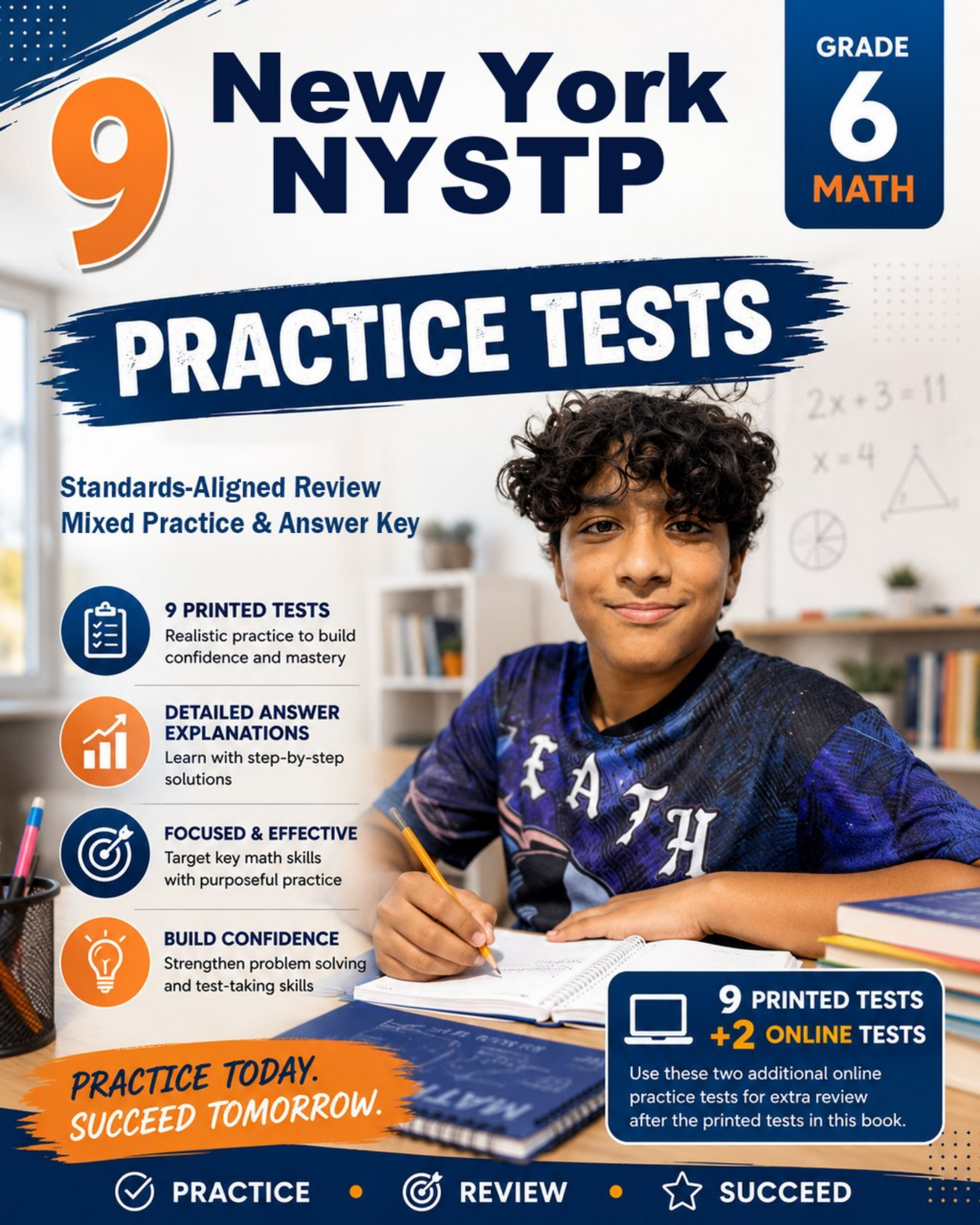
# 9 New York NYSTP

GRADE 6 MATH

# PRACTICE TESTS

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



**9 PRINTED TESTS**
Realistic practice to build confidence and mastery

**DETAILED ANSWER EXPLANATIONS**
Learn with step-by-step solutions

**FOCUSED & EFFECTIVE**
Target key math skills with purposeful practice

**BUILD CONFIDENCE**
Strengthen problem solving and test-taking skills

**9 PRINTED TESTS +2 ONLINE TESTS**

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

*PRACTICE TODAY. SUCCEED TOMORROW.*

PRACTICE • REVIEW • SUCCEED

# 9 New York NYSTP Grade 6 Math Practice Tests

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




Nine 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!

Nine focused rounds using focused statewide review

This book gives you nine 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.

# How to Use This Book

A nine-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?

Nine NYSTP tests, 360 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 7–9 | 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.

# Table of Contents

1) A babysitter charges \$12 per hour. If the sitter works for $h$ hours, the total earnings are $e = 12h$. When this relationship is graphed with hours on the horizontal axis and earnings on the vertical axis, what earnings value does the line cross the vertical axis at?

☐ A. 0
☐ B. 12
☐ C. 6
☐ D. 24

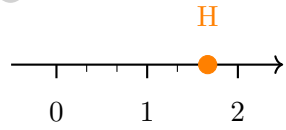
2) Divide 7,020 by 30.

☐ A. 234
☐ B. 230
☐ C. 240
☐ D. 244

3) Divide: $15.6 \div 2$

☐ A. 7.8
☐ B. 78
☐ C. 13.6
☐ D. 31.2

4) The number line below shows tick marks at thirds. Point H is marked. What is the value of point H?




☐ A. $1\frac{2}{3}$
☐ B. $1\frac{1}{2}$
☐ C. $1\frac{1}{3}$
☐ D. 2

5) A map uses a scale of 1 inch = 25 miles. Two cities are 5 inches apart on the map. How far apart are they in reality?

☐ A. 30 miles
☐ B. 75 miles
☐ C. 100 miles
☐ D. 125 miles

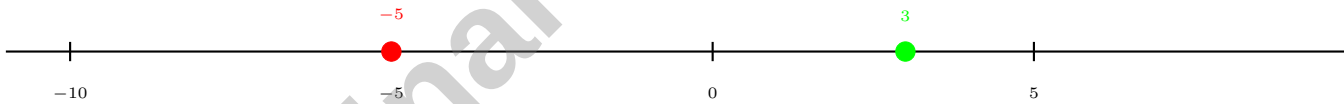
6) Use the GCF to factor $52 + 39$. (Hint: GCF is 13)

☐ A. $13(4 + 3)$
☐ B. $13(4 + 39)$
☐ C. $13(52 + 39)$
☐ D. $13(4 \times 3)$

7) If $-7$ and 7 are plotted on a number line, which option identifies all true statements about them?

☐ A. The same distance from zero
☐ B. Opposites
☐ C. On opposite sides of zero
☐ D. All of the above

8)




Which number has a greater absolute value, $-5$ or 3?

☐ A. $-5$ because it is negative
☐ B. 3 because it is smaller
☐ C. $-5$ because $|-5| = 5$ and $5 > 3$
☐ D. They are equal

9) If a point is reflected across the $y$-axis, which coordinate changes?

☐ A. Only the $x$-coordinate
☐ B. Only the $y$-coordinate
☐ C. Both coordinates
☐ D. Neither coordinate

10) Compare $-\frac{2}{3}$ and $-\frac{1}{3}$. Which symbol makes the statement true?

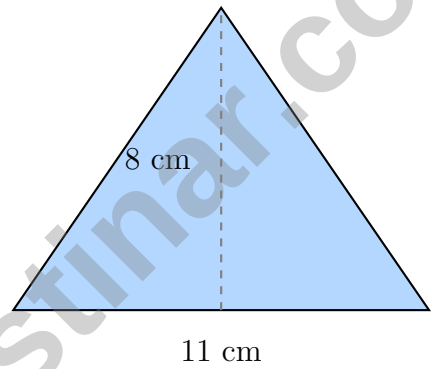
$$-\frac{2}{3} \square -\frac{1}{3}$$

☐ A. $<$
☐ B. $>$
☐ C. $=$
☐ D. Cannot compare

11) The distance between $(x, 7)$ and $(8, 7)$ is 5 units. Both points have the same $y$-coordinate. What is $x$?

☐ A. $x = 3$ or $x = 13$
☐ B. $x = 2$ or $x = 14$
☐ C. $x = 4$ or $x = 12$
☐ D. $x = 1$ or $x = 15$

12) What is the area of an isosceles triangle with base 11 cm and height 8 cm?

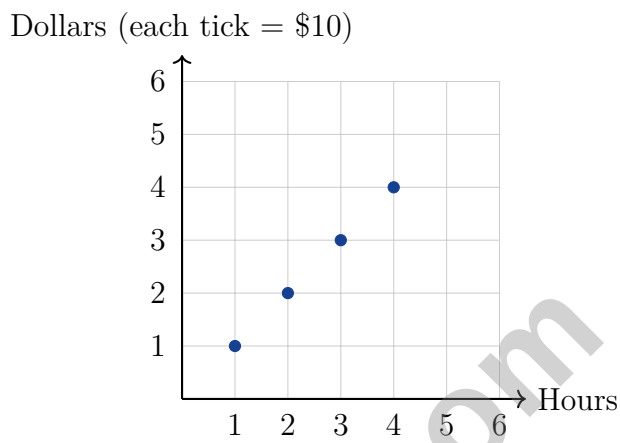



☐ A. 19 $cm^2$
☐ B. 44 $cm^2$
☐ C. 88 $cm^2$
☐ D. 176 $cm^2$

13) A trapezoid has an area of 48 $m^2$ and a height of 6 m. One base is 5 m long. What is the length of the other base?

☐ A. 5 m
☐ B. 8 m
☐ C. 11 m
☐ D. 16 m

1) The coordinate plane shows ordered pairs representing the ratio of hours worked to dollars earned. Based on the graph, how much is earned per hour?

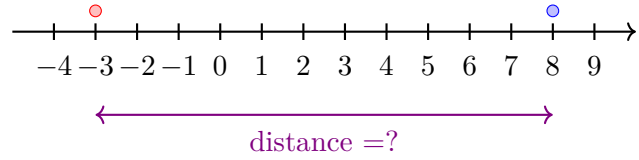



☐ A. $1 per hour
☐ B. $5 per hour
☐ C. $10 per hour
☐ D. $20 per hour

2) Simplify: $\frac{6}{7} \div \frac{9}{14}$

☐ A. $\frac{54}{98}$
☐ B. $\frac{3}{4}$
☐ C. $1\frac{1}{3}$
☐ D. $\frac{2}{3}$

3) On a number line, what is the distance from $-3$ to 8?




☐ A. 5 units
☐ B. $-5$ units
☐ C. $-11$ units
☐ D. 11 units

4) If $? \times (-8) = 56$, what is the missing number?

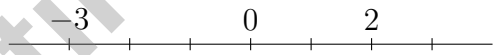
☐ A. $-7$
☐ B. 7
☐ C. 48
☐ D. 64

5) A recipe calls for flour and sugar in a 5 : 2 ratio. If the recipe uses 10 cups of flour, how many cups of sugar are needed?

6) An account shows a balance of \$28. A withdrawal of \$15 is made. What is the new balance?

☐ A. \$-43
☐ B. \$-13
☐ C. \$13
☐ D. \$43

7) Which number line correctly shows three points: $-3$, 0, and 2?




Based on the number line, which statement is true?

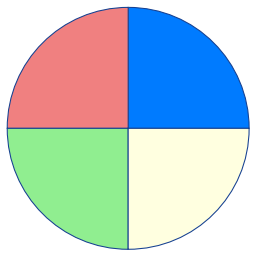
☐ A. $-3 > 2$
☐ B. $0 < -3$
☐ C. $-3 < 0 < 2$
☐ D. $2 < 0$

8) A student plotted a point and said it was at $(-4, -2)$ in Quadrant II. What mistake did the student make?

☐ A. The $x$-coordinate should be positive
☐ B. Both coordinates should be negative for Quadrant II
☐ C. The coordinates are swapped
☐ D. The point is actually in Quadrant III

1) Divide 4,896 by 18.

☐ A. 272
☐ C. 276
☐ B. 280
☐ D. 284

2) 

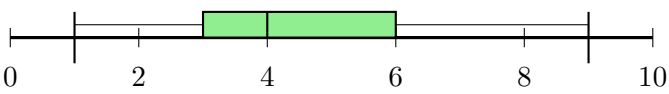
If a circle graph is divided into 4 equal sections, how many degrees is each central angle?

☐ A. 90°
☐ C. 60°
☐ B. 72°
☐ D. 120°

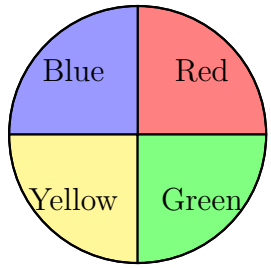
3) Which is the MOST statistical question?

☐ A. How many wheels does a bicycle have?
☐ C. How many hours of sleep do sixth graders get each night?
☐ B. What is the temperature in my room right now?
☐ D. What color is my coat?

4) Use the box plot below. What percentage of the data falls between the minimum and $Q_1$?




☐ A. 0%
☐ C. 50%
☐ B. 75%
☐ D. 25%



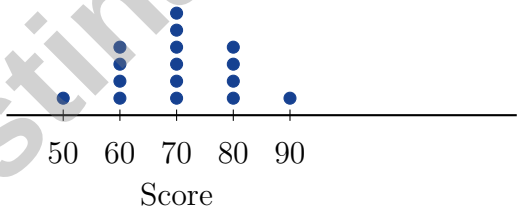

5) The spinner above is spun. Which probability is impossible?

☐ A. $P(\text{Red}) = 0.25$
☐ B. $P(\text{Blue}) = 0.25$
☐ C. $P(\text{Purple}) = 0.25$
☐ D. $P(\text{Yellow}) = 0.25$

6) A teacher records student test scores: $75, 80, 82, 78, 85$. What is the range?

☐ A. 5
☐ B. 7
☐ C. 10
☐ D. 82

7) A dot plot shows exam scores. When comparing the shape, what is the difference between a right-skewed distribution and a symmetric distribution?




☐ A. Symmetric has a longer tail; right-skewed is centered
☐ B. Right-skewed has a longer tail to the right; symmetric is balanced on both sides
☐ C. They have the same shape but different heights
☐ D. Right-skewed means all values are equal

# 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 nine printed NYSTP tests with purposeful, flexible, and ready for the next route habits.

# Practice Test 1 Answers and Explanations

1) **Choice A is correct.** 6.EE.9 The equation $e = 12h$ has no constant added, so when $h = 0$ (zero hours), $e = 0$ (zero earnings). The line crosses the vertical axis at earnings $= 0$.
2) **Choice A is correct.** 6.NS.2 $7{,}020 \div 30 = 234$. Verify: $30 \times 234 = 7{,}020$.
3) **Choice A is correct.** 6.NS.3 Divide: $15 \div 2 = 7$ R1, then $1.6 \div 2 = 0.8$. So $15.6 \div 2 = 7.8$.
4) **Choice A is correct.** 6.NS.6c Point H is located $\frac{2}{3}$ of the way from 1 to 2, which is $1\frac{2}{3}$.
5) **Choice D is correct.** 6.RP.3 Multiply: 5 inches $\times$ 25 miles/inch $= 125$ miles.
6) **Choice A is correct.** 6.NS.4 GCF of 52 and 39 is 13. So $52 + 39 = 13(4 + 3)$. This is the only choice with the correct factorization.
7) **Choice D is correct.** 6.NS.5 The integers $-7$ and 7 satisfy all three conditions: they are each 7 units from zero, they are opposites, and they are on opposite sides of zero.
8) **Choice C is correct.** 6.NS.7c Compare absolute values: $|-5| = 5$ and $|3| = 3$. Since $5 > 3$, the number $-5$ has the greater absolute value.
9) **Choice A is correct.** 6.NS.6 When reflecting across the $y$-axis, the point flips left to right. This changes the sign of the $x$-coordinate while the $y$-coordinate stays the same.
10) **Choice A is correct.** 6.NS.7d Both are negative. Since $-\frac{2}{3} \approx -0.67$ and $-\frac{1}{3} \approx -0.33$, we have $-\frac{2}{3} < -\frac{1}{3}$.
11) **Choice A is correct.** 6.NS.8 Since $|x - 8| = 5$, then $x = 8 - 5 = 3$ or $x = 8 + 5 = 13$.
12) **Choice B is correct.** 6.G.1 $A = \frac{1}{2} \times 11 \times 8 = 44$ cm$^2$.
13) **Choice C is correct.** 6.G.1 Using $A = \frac{1}{2}(b_1 + b_2) \times h$: $48 = \frac{1}{2}(5 + b_2) \times 6 = 3(5 + b_2) = 15 + 3b_2$, so $3b_2 = 33$ and $b_2 = 11$ m.
14) **Choice C is correct.** 6.G.2 $V = 3.5 \times 2.5 \times 3 = 8.75 \times 3 = 26.25$ in$^3$.
15) **Choice A is correct.** 6.NS.6 Translate left by subtracting from $x$: $3 - 4 = -1$. Translate down by subtracting from $y$: $5 - 2 = 3$. So $A' = (-1, 3)$.
16) **The correct answer is** 200. 6.RP.3 Distance = Rate $\times$ Time $= 80 \times 2.5 = 200$ miles.
17) **Choice B is correct.** 6.RP.1 The circumference formula is $C = 2\pi r$. This relates the perimeter to the radius. Choice C is area; choice A is incorrect.
18) **Choice D is correct.** 6.SP.2 The key reason it is statistical is the expected variability (different speeds) and the need to collect data from multiple runners. Using the word "typical" or the context alone does not define a statistical question.
19) **The correct answer is** 2,500. 6.RP.3d Multiply by the conversion factor: 2.5 liters $\times$ 1000 mL/liter $= 2500$ mL.
20) **Choice C is correct.** 6.SP.5d The median of $2, 4, 6, 8, 10$ is 6 (the middle value).
21) **The correct answer is GCF of** 16 **and** 24 **is** 8**; prime factorization of** 40 **is** $2^3 \times 5$**.**. 6.NS.4 Statement A: Factors of 16 are $1, 2, 4, 8, 16$ and factors of 24 are $1, 2, 3, 4, 6, 8, 12, 24$; the GCF is 8 (TRUE). Statement B: LCM of 5 and 7 is 35, not 12 (FALSE). Statement C: $40 = 8 \times 5 = 2^3 \times 5$ (TRUE). Statement D is missing factor 10. Statement E is false because the LCM of 6 and 10 is 30.
22) **Choice A is correct.** 6.SP.5d Alice's median (96) $>$ mean (95) suggests low outliers pulling mean down. Bob's median (93) $<$ mean (95) suggests high outliers.
23) **Choice B is correct.** 6.NS.1 You are counting how many $\frac{1}{4}$-cup servings fit inside 2 cups—that's a division problem: $2 \div \frac{1}{4}$. Rewrite as $2 \times 4$, which equals 8 servings.
24) **Choice C is correct.** 6.NS.3 The distance from $-8$ to 6 is $6 - (-8) = 6 + 8 = 14$ units.
25) **Choice A is correct.** 6.NS.3 Positive times negative gives negative ($-54$); negative times negative gives positive (64).

## Hi, Math Champion!

◇ You trained hard! 9 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.

**Jay Daie**

Your Math Coach

# PRACTICE MORE. ACHIEVE MORE.

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 any test.

With 9 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.

## 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.

**Deeper 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.

**9 PRINTED PRACTICE TESTS**

**2 ONLINE PRACTICE TESTS**

**DETAILED ANSWER EXPLANATIONS**