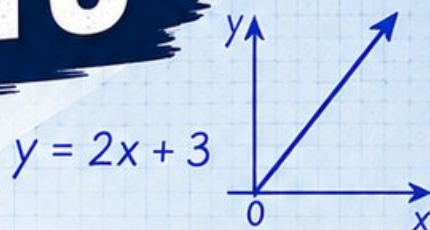


3 New York NYSTP

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

36% of 150 = ?



3 | PRINTED
TESTS



2 | ONLINE
TESTS



Build
Confidence



Master Key
Math Skills



Answer Explanations
for Every Question



Test-Taking
Strategies That Work

3 New York NYSTP Grade 6 Math Practice Tests

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



Three 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!

Three focused rounds using focused statewide review

This book gives you three 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 three-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?

Three NYSTP tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
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) Most students scored 85 or higher on a test, but a few scored in the 60s. What is the shape?
- A. Skewed right C. Symmetric
 B. Skewed left D. Bimodal
- 2) A student evaluated $2 + 3 \times 2^2$ and got 20. What was the student's error?
- A. The student added first instead of applying the exponent first. C. The student computed $5^2 = 25$ and forgot to subtract 5.
 B. The student multiplied by 2 twice instead of once. D. The student's answer is correct.
- 3) Find the value of $\frac{2x+4}{2}$ when $x = 4$.
- A. 4 C. 6
 B. 5 D. 8
- 4) Two datasets have box plots with identical boxes but different whiskers. The first dataset's whiskers are much longer. What does this indicate?
- A. The first dataset has a higher median. C. The first dataset has more data points overall.
 B. The first dataset has a larger minimum and maximum, but the same IQR. D. The first dataset is skewed differently.



- 5) A student graphed the ratio of cats to dogs as (cats, dogs). For the point (2, 5), the correct constant of proportionality is $\frac{5}{2} = 2.5$. The student wrote $\frac{2}{5} = 0.4$ instead. What did this error represent?
- A. The student divided the x-value by the y-value instead of the y-value by the x-value
- B. The student forgot to simplify the fraction
- C. The student found $\frac{5}{2}$ instead of $\frac{2}{5}$
- D. The student changed the point to (5, 2)
- 6) A soccer team won 80% of its games. Which decimal represents this percent?
- A. 0.008
- B. 0.80
- C. 8.0
- D. 80.0
- 7) A jacket's original price is unknown. After a 25% discount, it costs \$75. What was the original price?
- A. \$100
- B. \$93.75
- C. \$56.25
- D. \$150
- 8) In a classroom, the ratio of boys to girls is 4 : 3. If there are 8 boys, how many girls are there?
- A. 4
- B. 6
- C. 8
- D. 12
- 9) In a student club, the ratio of 6th graders to 7th graders is 4 : 6. If there are 12 sixth graders, how many seventh graders are in the club?



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10) A road sign shows the next rest stop is 3 kilometers away. How many meters away is the rest stop?

- A. 300 meters C. 30,000 meters
 B. 0.3 meters D. 3,000 meters

11) Keisha uses a debit card to purchase a video game for \$45. What will happen to her bank account?

- A. The bank lends her \$45 C. She earns \$45 in interest
 B. The balance decreases by \$45 D. The balance increases by \$45

12) A bookstore sells 5 books for \$45. What is the unit rate in dollars per book?

13) A worker earns \$360 for 40 hours of work. After working an extra 5 hours at the same rate, how much total money does the worker earn?



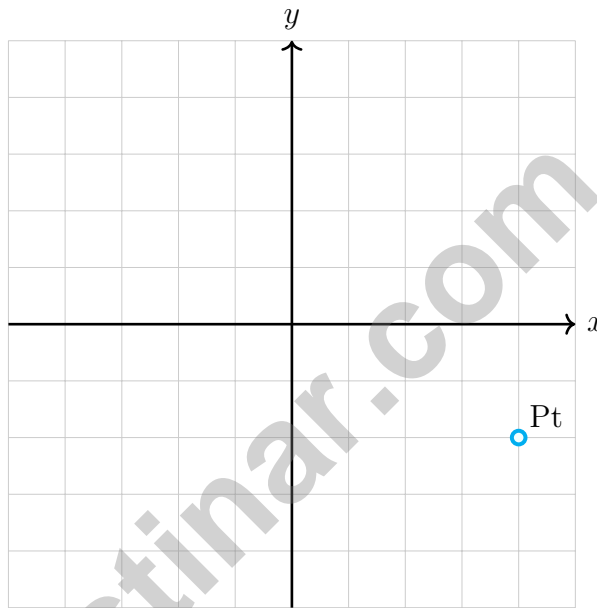
1) A trapezoid has an area of 112 cm^2 , a height of 8 cm , and one base of 9 cm . What is the other base?

A. 19 cm

C. 14 cm

B. 16 cm

D. 22 cm



2)

A point is at $(4, -2)$ and is reflected over the y -axis. Which point is its image?

A. $(-4, -2)$

C. $(4, -2)$

B. $(4, 2)$

D. $(-4, 2)$



3) A student calculates the area of a circle with radius 3 cm and gets 28.26 cm^2 . Which value of π did they use?

A. $\pi \approx 3.5$

C. $\pi \approx 2.5$

B. $\pi \approx 2.2$

D. $\pi \approx 3.14$

4) A rectangular aquarium has length 10 inches, width 6 inches, and height 8 inches. Calculate its volume in cubic inches.

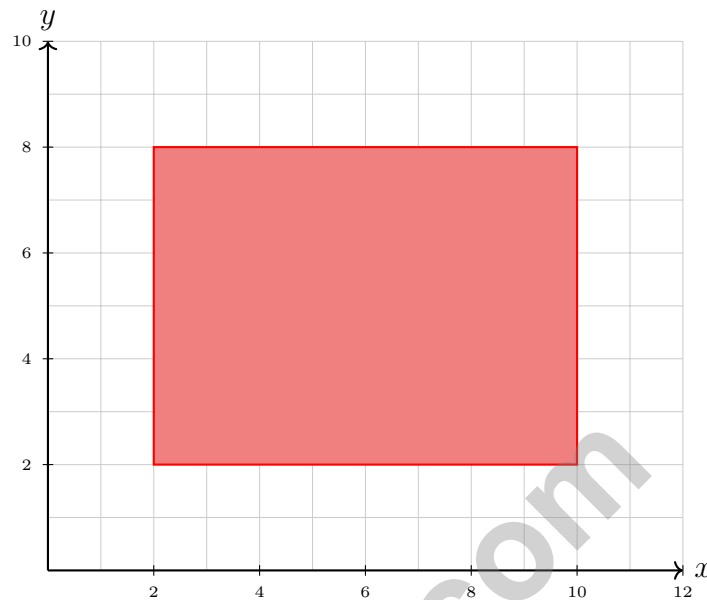
5) Which question BEST represents the core concept of a statistical question?

**A statistical question expects variability
and is answered by collecting data
from multiple sources.**

Which example matches this definition?

 A. What time does the bus arrive at school? C. How many days are in a week? B. What is the name of my best friend? D. How many siblings do students in my grade have?

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1)

Which rectangle has the same area as a rectangle with vertices at $(2, 2)$, $(10, 2)$, $(10, 8)$, and $(2, 8)$?

- A. Vertices at $(1, 1)$, $(13, 1)$, $(13, 7)$, $(1, 7)$
 C. Vertices at $(1, 1)$, $(9, 1)$, $(9, 9)$, $(1, 9)$
 B. Vertices at $(3, 1)$, $(15, 1)$, $(15, 5)$, $(3, 5)$
 D. Vertices at $(2, 1)$, $(14, 1)$, $(14, 7)$, $(2, 7)$

2) A student calculates the area of a triangle with base 10 m and height 8 m by computing $10 \times 8 = 80 \text{ m}^2$. What error did the student make?

- A. Forgot to divide by 2.
 C. Forgot to multiply by 2.
 B. Used the wrong base.
 D. Used an incorrect height.



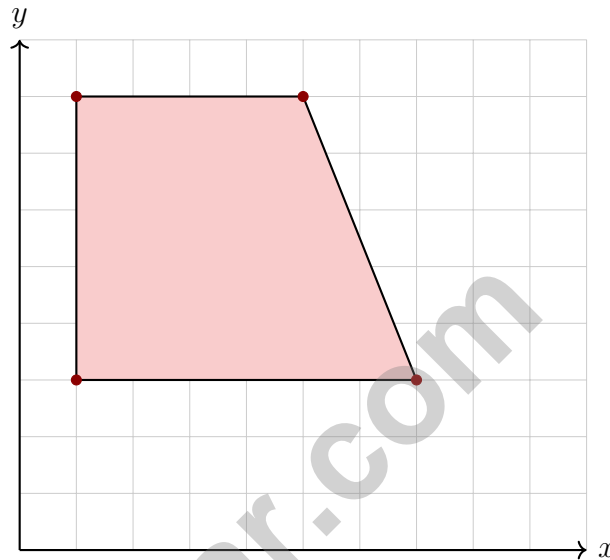
3) A rectangular prism has a base area of 18 cm^2 and height 4 cm. What is the volume?

A. 22 cm^3

B. 36 cm^3

C. 54 cm^3

D. 72 cm^3



4)

What is the length of the top side?

A. 4 units

B. 5 units

C. 6 units

D. 7 units

5) A rectangular prism has dimensions $5 \text{ cm} \times 5 \text{ cm} \times 15 \text{ cm}$. What is its surface area?

A. 200 cm^2

B. 250 cm^2

C. 300 cm^2

D. 350 cm^2



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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.



New York Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(6.SP.2)** Most students clustered on the right (high scores) with a tail extending left (low scores) creates a left-skewed distribution.
- 2) **Choice A is correct.** **(6.EE.1)** Correct order: exponent $2^2 = 4$, then multiply $3 \times 4 = 12$, then add $2 + 12 = 14$. The student likely computed $(2 + 3) \times 2^2 = 5 \times 4 = 20$, adding before the exponent.
- 3) **Choice C is correct.** **(6.EE.2c)** Substitute $x = 4$: $\frac{2(4)+4}{2} = \frac{8+4}{2} = \frac{12}{2} = 6$.
- 4) **Choice B is correct.** **(6.RP.1)** Identical boxes mean the same Q_1 , median, and Q_3 (hence same IQR). Longer whiskers indicate the min and max values are further from the box.
- 5) **Choice A is correct.** **(6.RP.3a)** For a graph with cats on the x-axis and dogs on the y-axis, the constant of proportionality is $y \div x = \frac{5}{2}$. The student used $x \div y = \frac{2}{5}$, so the fraction was inverted.
- 6) **Choice B is correct.** **(6.RP.3c)** $80\% = \frac{80}{100} = 0.80$.
- 7) **Choice A is correct.** **(6.RP.3c)** If 25% discount, customer pays 75% of original. So $0.75 \times \text{original} = 75$. Original = $75 \div 0.75 = 100$.
- 8) **Choice B is correct.** **(6.RP.3)** Ratio 4 : 3 with 8 boys means multiply by 2: $4 \times 2 = 8$ boys, $3 \times 2 = 6$ girls.
- 9) **The correct answer is 18.** **(6.RP.1)** The ratio of sixth graders to seventh graders is 4 : 6, which simplifies to 2 : 3. If 2 parts are 12 students, each part is 6, so seventh graders are $3 \times 6 = 18$.
- 10) **Choice D is correct.** **(6.RP.3d)** Multiply: $3 \times 1000 = 3000$ meters.
- 11) **Choice B is correct.** **(6.NS.7d)** A debit card draws directly from her bank account, reducing the balance by the purchase amount. Credit cards defer payment (she borrows); interest is earned on savings, not debit purchases; and balances don't increase from purchases.
- 12) **The correct answer is 9 dollars per book.** **(6.RP.3c)** Divide the total cost by the number of books: $45 \div 5 = 9$ dollars per book.
- 13) **The correct answer is \$405.** **(6.RP.3c)** Unit rate: $\$360 \div 40 = \9 per hour. Total hours: $40 + 5 = 45$ hours. Total earnings: $45 \times \$9 = \405 .
- 14) **Choice B is correct.** **(6.EE.9)** The data point (0, 2) shows that the line does not pass through the origin. The ratios are not constant either: $4/1 = 4$, $6/2 = 3$, and $8/3$ is not equal to 3. So the relationship is not proportional.
- 15) **Choice B is correct.** **(6.EE.9)** Shortfall is Expenses minus Budgeted Amount: $\$1700 - \$1500 = \$200$.
- 16) **Choice A is correct.** **(6.RP.3)** If 2 cm on the map represents 15 km, then 1 cm represents $15 \div 2 = 7.5$ km.
- 17) **Choice C is correct.** **(6.NS.1)** $3 \div \frac{1}{3} = 3 \times 3 = 9$.
- 18) **Choice D is correct.** **(6.NS.2)** Using partial quotients: $200 + 20 + 8 = 228$. Verify: $24 \times 228 = 5,472$.
- 19) **The correct answer is 4 : 6 = 2 : 3 (dividing by 2) and 4 : 6 = 8 : 12 (multiplying by 2)..** **(6.RP.1)** Nice checking: Choice A works because 4 : 6 simplifies to 2 : 3, and Choice B works because multiplying both parts of 4 : 6 by 2 gives 8 : 12. The other choices change the relationship.
- 20) **The correct answer is 10.** **(6.RP.3a)** The ratio is 2.5 : 1. For 4 batches: $2.5 \times 4 = 10$ cups of flour.
- 21) **Choice A is correct.** **(6.NS.3)** Subtract: $\$14.95 - \$0.75 = \$14.20$.
- 22) **Choice B is correct.** **(6.NS.4)** Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24. Factors of 60: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60. Common factors: 1, 2, 3, 4, 6, 12. GCF is 12.
- 23) **Choice A is correct.** **(6.NS.4)** Distributive property: $9(3 + 4) = 9 \cdot 3 + 9 \cdot 4 = 27 + 36 = 63$. Choice A shows the expanded form.
- 24) **Choice A is correct.** **(6.NS.5)** To order integers from least to greatest, place the most negative number first, then move toward zero and positive numbers. The order is $-4 < -1 < 0 < 2$.
- 25) **Choice D is correct.** **(6.NS.7c)** Error analysis: Jordan confused absolute value with the original number. Absolute value $|-7| = 7$ represents distance, which is always non-negative.



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Hi, Math Athlete!

◇ 3 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

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-  Detailed Answer Explanations

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- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



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