

9

Texas STAAR

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



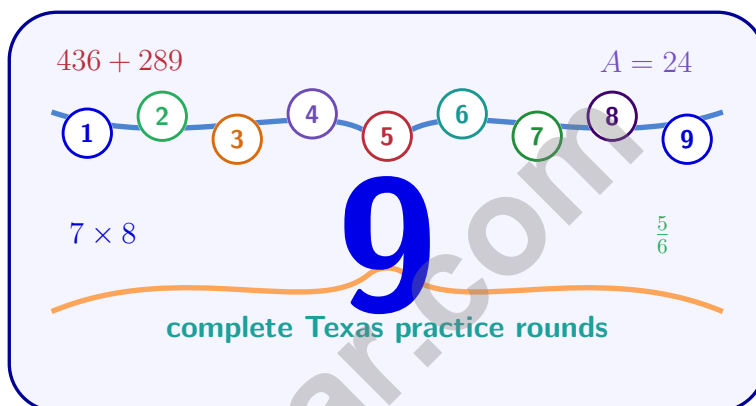
REVIEW



SUCCEED

9 Texas STAAR Grade 6 Math Practice Tests

Standards-Aligned Bold But Careful Reasoning for State of Texas Assessments of Academic Readiness



Nine complete 40-question Grade 6 practice rounds for STAAR, built for bold but careful reasoning 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, Texas Math Explorer!

Nine focused rounds using bold but careful reasoning

This book gives you nine full Grade 6 practice tests for STAAR. Each round uses big skies, city grids, and confident problem-solving 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 Texas Practice Promise

Make the setup big and clear before doing the math: mark clues, solve, and verify.

Read

Plan

Check

How to Use This Book

A nine-session routine for bold but careful reasoning

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Texas review rhythm: Work one round, study the hard spots, and return with a stronger plan for the next STAAR-style set.



What Is Inside?

Nine STAAR 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. Bold but careful reasoning 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) Which value satisfies both $x \geq 3$ and $x \leq 7$?

A. $x = 2$

C. $x = 8$

B. $x = 5$

D. $x = 10$

2) Find the sum: $0.75 + 1.4 + 2.1$

A. 3.15

C. 4.35

B. 4.25

D. 4.15

3) A student made an error. They said the GCF of 18 and 24 is 24. What is the correct GCF?

A. 6

C. 12

B. 8

D. 18

4) A train travels at 80 miles per hour for 2.5 hours. How far does the train travel?

5) Which integer represents a gain of 18 dollars?

A. -18

C. 0

B. 18

D. -36



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11) Which sequence shows integers in order from least to greatest?

A. $-8, -3, 0, 5, 12$

C. $-3, -8, 0, 5, 12$

B. $12, 5, 0, -3, -8$

D. $0, -3, -8, 5, 12$

12) Simplify: $8 - 2x + 5x + 3 + x$.

A. $4x + 8$

C. $6x + 11$

B. $14x + 3$

D. $4x + 11$

13) A carpenter has a board that is 5 feet long. He needs to convert this to inches to cut it into equal pieces. How many inches long is the board?

14) Solve for x : $\frac{x}{5} = 3$

A. $x = \frac{3}{5}$

C. $x = 8$

B. $x = 2$

D. $x = 15$

15) A student mistakenly writes $s = 25t$ to represent “the total cost t is \$25 per shirt s ”. What is the error?

 A. The variables are swapped C. The equation should use addition B. The number 25 is incorrect D. There is no error

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1) A store has four items weighing: 0.75 kg, 1.2 kg, 0.8 kg, and 0.6 kg. What is the total weight?

A. 3.95 kg

C. 3.35 kg

B. 2.75 kg

D. 4.15 kg

2) Evaluate: $\frac{4}{7} \div \frac{2}{7}$

A. $\frac{8}{49}$

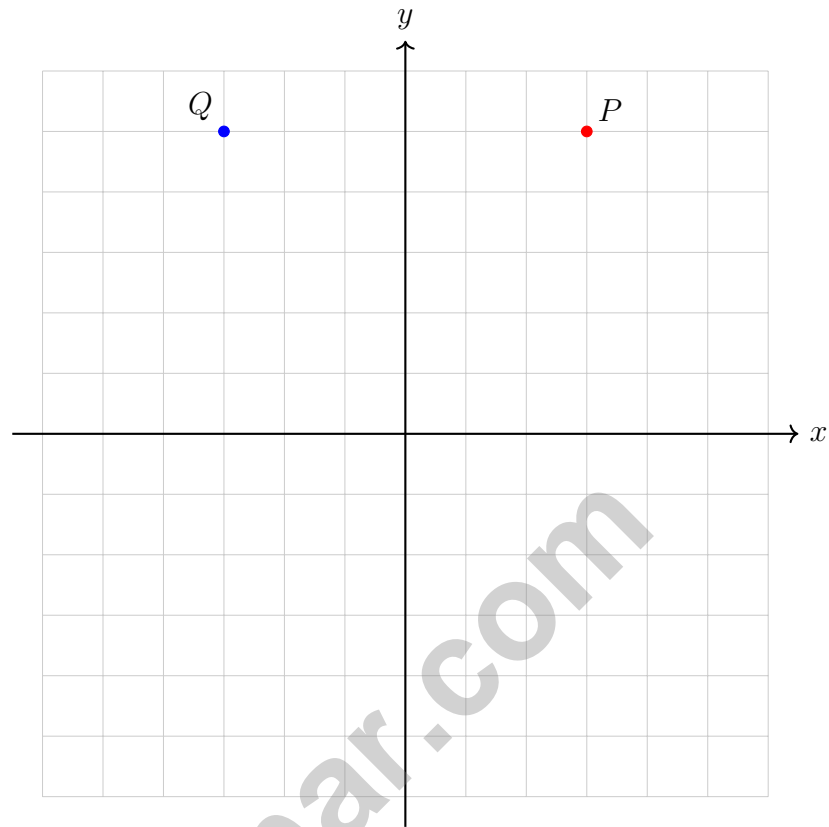
B. 2

C. $\frac{6}{7}$

D. $\frac{2}{14}$

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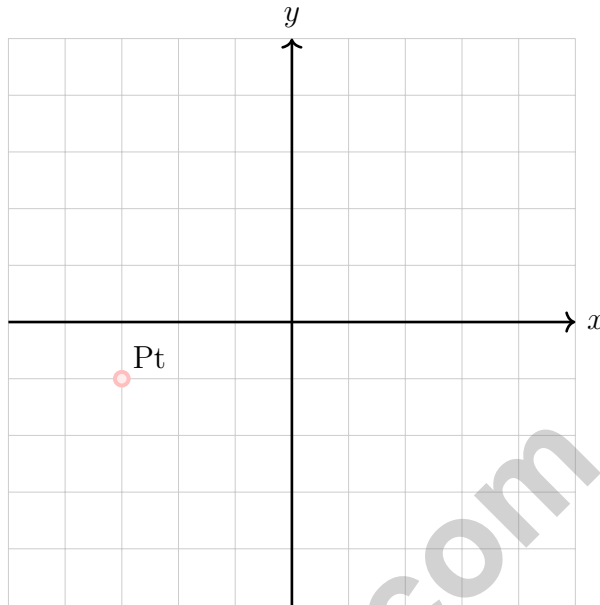
3)

Points P and Q are shown on the coordinate plane. What do these points have in common?

- A. They are in the same quadrant
- B. They have the same y -coordinate
- C. They are reflections across the origin
- D. They have the same x -coordinate



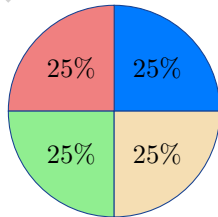
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1)

If a point at $(-3, -1)$ is reflected over the x -axis, which of the following is the image?

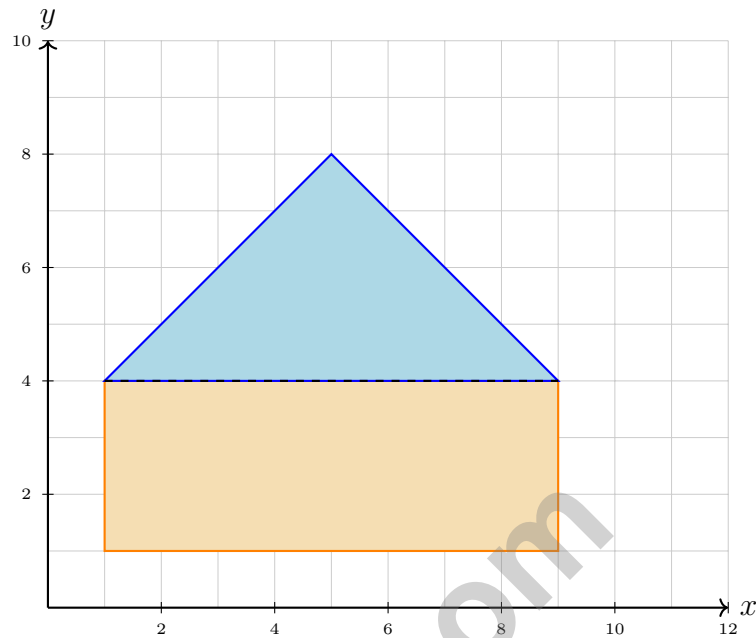
- A. $(-3, 1)$
- B. $(-3, -1)$
- C. $(3, 1)$
- D. $(3, -1)$



2)

A restaurant surveyed 180 customers about their favorite drink. The circle graph shows 25% like coffee. How many customers prefer coffee?

- A. 45
- B. 35
- C. 25
- D. 55



3)

A composite figure has a rectangle on the bottom and a triangle on top. The rectangle has vertices $(1, 1)$, $(9, 1)$, $(9, 4)$, $(1, 4)$. The triangle sits above with vertices $(1, 4)$, $(9, 4)$, and $(5, 8)$. What is the total area?

- A. 32 square units C. 40 square units
 B. 36 square units D. 44 square units

4) A rectangular prism has surface area 550 cm^2 . Its length is 15 cm and width is 10 cm. What is its height?

- A. 5 cm C. 8 cm
 B. 7 cm D. 10 cm



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For more practice
& answers

Texas STAAR Practice Test Answer Keys**How to use this Texas STAAR 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 bold but careful reasoning
3. rework the problem before reading the full explanation, using this reminder:
Make the setup big and clear before doing the math: mark clues, solve, and verify.

A calm Texas correction routine turns every missed item into useful practice. Work one round, study the hard spots, and return with a stronger plan for the next STAAR-style set.



Texas Practice Test Answers and Explanations

Review the nine printed STAAR tests with confident, careful, and ready for the next route habits.

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **6.9(B)** $x \geq 3$ means x is at least 3. $x \leq 7$ means x is at most 7. Only 5 falls in the range $[3, 7]$.
- 2) **Choice B is correct.** **6.3(D)** Add: $0.75 + 1.40 + 2.10 = 4.25$. Align all decimal points first.
- 3) **Choice A is correct.** **6.7(A)** The student confused the larger number with the GCF. Factors of 18: 1, 2, 3, 6, 9, 18. Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24. Common: 1, 2, 3, 6. GCF is 6, not 24.
- 4) **The correct answer is 200.** **6.4(F)** Distance = Rate \times Time = $80 \times 2.5 = 200$ miles.
- 5) **Choice B is correct.** **6.14(D)** A gain represents an increase or positive change. Gaining 18 dollars is written as the positive integer 18.
- 6) **Choice B is correct.** **6.3(E)** $7,280 \div 35 = 208$ remainder 4. Check: $35 \times 208 + 4 = 7,280$.
- 7) **Choice B is correct.** **6.5(A)** GCF of 8 and 12 is 4. So $8 + 12 = 4(2 + 3)$. Choice A uses 2 (a common factor but not greatest); Choices C and D include decimals, violating whole-number arithmetic.
- 8) **Choice D is correct.** **6.2(B)** Both $|-7|$ and $|7|$ equal 7, so they are equal.
- 9) **Choice D is correct.** **6.2(C)** To be between -0.6 and -0.5 , a number must satisfy $-0.6 < x < -0.5$. The value -0.5 is the endpoint, not strictly between the two values.
- 10) **Choice C is correct.** **6.11** Distance on map: $|6 - 1| = 5$ units. Actual distance: $5 \times 200 = 1000$ meters.
- 11) **Choice A is correct.** **6.3(D)** Integers increase from left to right on a number line. $-8 < -3 < 0 < 5 < 12$.
- 12) **Choice D is correct.** **6.7(D)** Combine x terms: $-2x + 5x + x = 4x$. Combine constants: $8 + 3 = 11$. Result: $4x + 11$.
- 13) **The correct answer is 60.** **6.4(H)** Multiply by the conversion factor: $5 \text{ feet} \times 12 \text{ inches/foot} = 60 \text{ inches}$.
- 14) **Choice D is correct.** **6.10(B)** Multiply both sides by 5: $x = 3 \times 5 = 15$.
- 15) **Choice A is correct.** **6.6(A)** The total cost should equal the price per shirt times the number of shirts: $t = 25s$. Writing $s = 25t$ swaps the dependent and independent variables.
- 16) **Choice D is correct.** **6.8(B)** Area = $\pi r^2 \approx 3.14 \times 15^2 = 3.14 \times 225 = 706.5 \text{ ft}^2$.
- 17) **Choice D is correct.** **6.13(B)** A statistical question must expect variability and require data collection from multiple sources. Asking one person a question that has a single fixed answer (your parent's one specific age) does not make it statistical.
- 18) **The correct answer is 1600.** **6.10(A)** Total: $\$900 + \$150 + \$350 + \$200 = \$1600$.
- 19) **Choice B is correct.** **6.12(B)** Bimodal means the distribution has two distinct modes (peaks). A single peak is unimodal; symmetric peaks form a bimodal distribution.
- 20) **The correct answer is The graph is a straight line through the origin, and the ratio of y to x is always constant.** **6.6(C)** Statements A and B correctly describe proportional relationships. C is wrong because b must equal 0 for proportionality. D is wrong because proportional equations have the form $y = kx$, not $y = k/x$. E is wrong because a proportional relationship must start at the origin.
- 21) **Choice D is correct.** **6.13(A)** Difference = $6 - 3 = 3$ more students completed 30 jumping jacks than 25 jacks.
- 22) **Choice B is correct.** **6.12(C)** Sum = $2 + 3 + 4 + 4 + 5 + 5 + 5 + 6 + 7 + 8 = 49$. Mean = $49/10 = 4.9$.
- 23) **Choice B is correct.** **6.14(D)** If 1 can covers $\frac{2}{3}$ wall, then to cover $\frac{1}{2}$ wall we need $\frac{1}{2} \div \frac{2}{3} = \frac{1}{2} \times \frac{3}{2} = \frac{3}{4}$ can.
- 24) **Choice D is correct.** **6.11** Points on an axis must have at least one coordinate equal to zero. The point $(2, -4)$ has both non-zero coordinates, so it is not on an axis.
- 25) **Choice C is correct.** **6.2(C)** The Loan balance is $-\$200$, which is less than the positive balances of Checking ($\$150$) and Savings ($\320).



Hi, Math Athlete!

◇ 9 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 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