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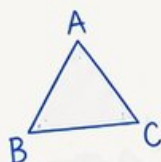
Texas STAAR

GRADE
6
MATH

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

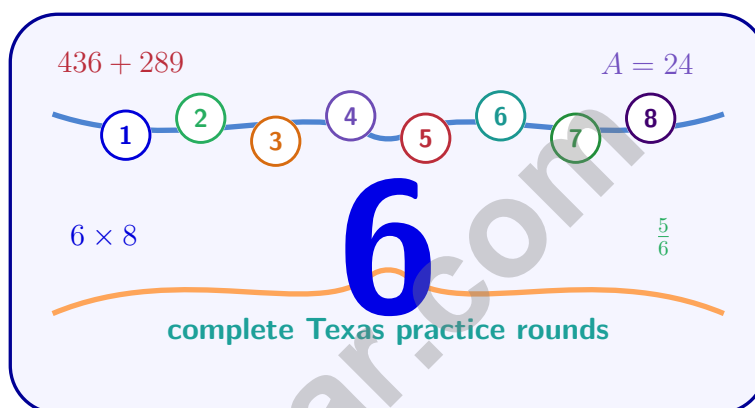


SUCCEED

Build confidence and achieve your best

6 Texas STAAR Grade 6 Math Practice Tests

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



Six 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!

Eight focused rounds using bold but careful reasoning

This book gives you six 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 six-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?

Eight STAAR 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.

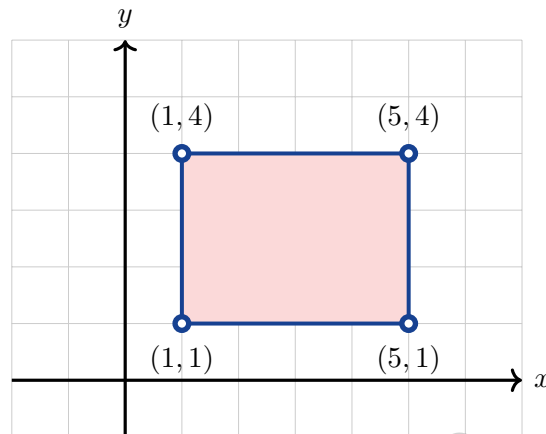
The tests are mixed on purpose. Bold but careful reasoning means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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1)

What is the width (horizontal length) of the rectangle with vertices at $(1, 1)$, $(5, 1)$, $(5, 4)$, and $(1, 4)$?

- A. 3 units C. 5 units
 B. 6 units D. 4 units

2) Which equation is equivalent to $x + 6 = 13$?

- A. $x = 13 - 6$ C. $x = 13$
 B. $x = 7$ D. $x = 13 + 6$

3) A farmer has 5,460 seedlings to plant equally in 28 rows. How many seedlings go in each row?

- A. 195 C. 205
 B. 200 D. 210



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For more practice
& answers

4) A backpack costs \$34.50. You have a coupon for \$7.25 off. How much will you pay?

- A. \$27.25 C. \$41.75
 B. \$26.25 D. \$27.50

5) A business has a profit of \$500 in January. In February, it has a loss of \$200. Which integer best represents the total change in profit for the two months?

- A. \$300 C. -\$300
 B. \$700 D. -\$700

6) An error was made in the statement below. What is the error?

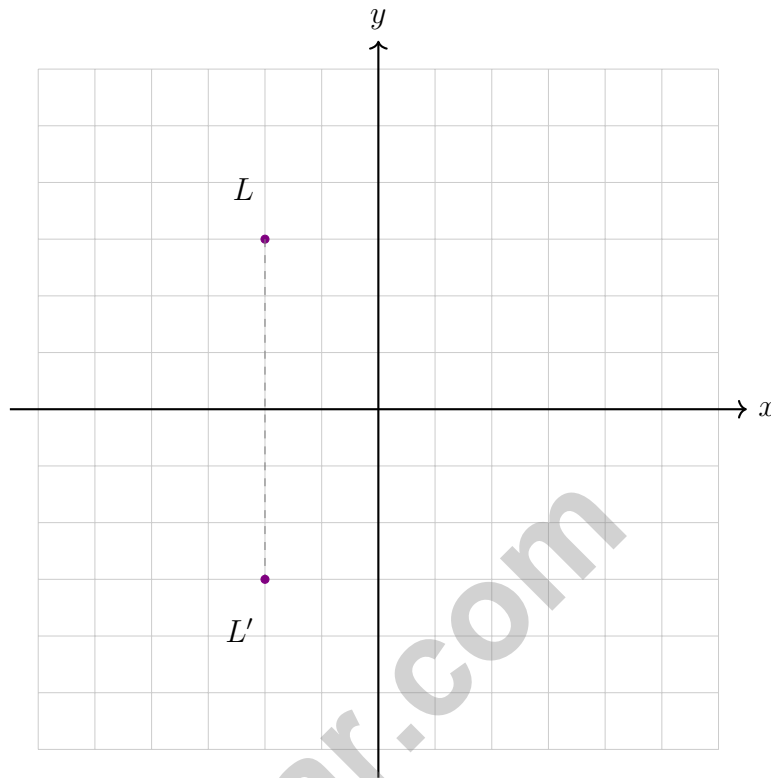
“The absolute value of -10 is -10 because the sign tells us the distance from zero.”

- A. Absolute value can be negative C. The sign tells the distance from
 B. Distance from zero is always non- zero
negative; $|-10| = 10$ D. Absolute value is always negative

7) Which statement about the number line is FALSE?

- A. -0.2 is between -0.5 and 0.1 C. The distance from -2 to 3 is 5 units
 B. $-\frac{3}{10}$ is equivalent to -0.3 D. -1.5 is less than -1.4





8)

Points L and L' are shown. If L is reflected across the x -axis to create L' , what are the coordinates of L ?

- A. $(-2, 3)$
- B. $(-2, -3)$
- C. $(3, -2)$
- D. $(2, 3)$

9) Order from least to greatest:

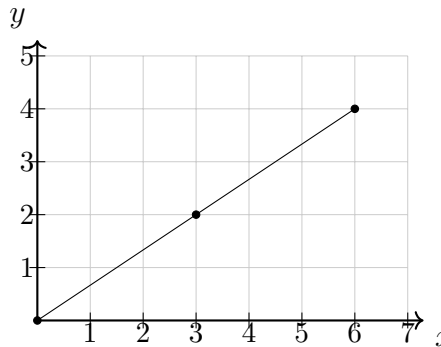
$$-\frac{3}{4}, \frac{1}{4}, -\frac{1}{4}, \frac{3}{4}$$

- A. $-\frac{1}{4}, -\frac{3}{4}, \frac{1}{4}, \frac{3}{4}$
- B. $\frac{1}{4}, \frac{3}{4}, -\frac{1}{4}, -\frac{3}{4}$
- C. $-\frac{3}{4}, -\frac{1}{4}, \frac{1}{4}, \frac{3}{4}$
- D. $\frac{3}{4}, \frac{1}{4}, -\frac{1}{4}, -\frac{3}{4}$



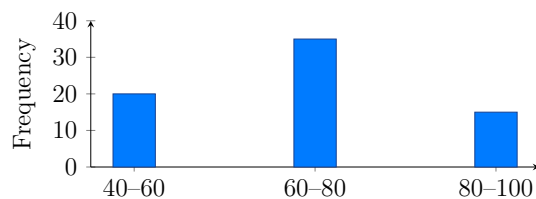
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- 1) A line on a coordinate plane has the equation $y = \frac{2}{3}x$. Which point lies on this line?



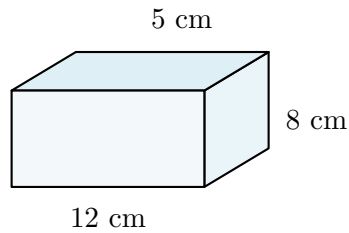
- A. (2, 4) C. (6, 4)
- B. (3, 3) D. (6, 9)
- 2) To make “How old am I?” statistical, should the question ask about one person or a group?

- 3) The histogram shows test scores grouped in intervals. Based on the histogram, how many students scored between 60 and 80?



- A. 15 students C. 35 students
- B. 20 students D. 55 students





1)

A gift box is 12 cm long, 8 cm wide, and 5 cm high. How many cubic centimeters is its volume?

- A. 25 cm³
 C. 240 cm³
 B. 120 cm³
 D. 480 cm³

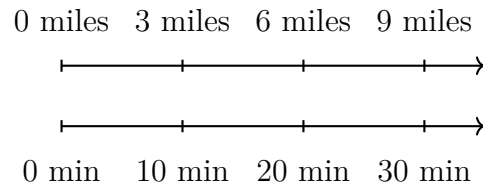
2) Three phone plans offer different rates: Plan A: 500 minutes for \$35, Plan B: 800 minutes for \$50, Plan C: 1000 minutes for \$60. Which plan has the lowest cost per minute?

Plan	Minutes	Cost (\$)	Cost per Min
A	500	35	\$0.07
B	800	50	\$0.0625
C	1000	60	\$0.06

- A. Plan A (\$0.07 per min)
 C. Plan C (\$0.06 per min)
 B. Plan B (\$0.0625 per min)
 D. Plans B and C are tied



- 3) A runner completes a race at a constant speed. The double number line shows the distance and time.



What is the unit rate in miles per minute?

- A. 0.2 mi/min C. 3 mi/min
 B. 0.3 mi/min D. 10 mi/min
- 4) A student records 6 quiz scores: 67, 71, 74, 68, 75, 72. When arranged in a stem-and-leaf plot, what is the median quiz score?

- 5) A ratio table shows time in minutes on the x-axis and calories burned on the y-axis.

Time (min)	Calories
5	40
10	80
15	120

Which point is NOT on the ratio line if this relationship is graphed?

- A. (20, 160) C. (25, 190)
 B. (7, 56) D. (30, 240)



Scan me!
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 six printed STAAR tests with confident, careful, and ready for the next route habits.

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.11)** Width is the horizontal distance: $|5 - 1| = 4$ units.
- 2) **Choice A is correct.** **(6.10(B))** Subtract 6 from both sides to isolate x . So $x = 13 - 6$.
- 3) **Choice A is correct.** **(6.3(E))** $5,460 \div 28 = 195$ exactly. Check: $28 \times 195 = 5,460$.
- 4) **Choice A is correct.** **(6.3(D))** Subtract: $\$34.50 - \$7.25 = \$27.25$.
- 5) **Choice A is correct.** **(6.14(D))** A profit of \$500 is +500 and a loss of \$200 is -200. The total change is $500 + (-200) = 300$.
- 6) **Choice B is correct.** **(6.2(B))** Absolute value is distance from zero, so it is never negative. The sign indicates direction, not distance magnitude.
- 7) **Choice D is correct.** **(6.2(C))** Statement D is false. -1.5 is actually LESS than -1.4 (further to the left on the number line). The others are all true.
- 8) **Choice A is correct.** **(6.11)** From the graph, point L (upper point) is located at $(-2, 3)$. Its reflection L' across the x -axis is at $(-2, -3)$.
- 9) **Choice C is correct.** **(6.2(C))** Negatives come before positives. $-\frac{3}{4} = -0.75 < -\frac{1}{4} = -0.25 < \frac{1}{4} = 0.25 < \frac{3}{4} = 0.75$.
- 10) **Choice D is correct.** **(6.3(D))** A negative divided by a positive is negative: $\frac{-20}{4} = -5$.
- 11) **Choice B is correct.** **(6.7(A))** Parentheses first: $3 + 4 = 7$. Then $7^2 = 49$, so $2 \times 49 - 10 = 98 - 10 = 88$.
- 12) **Choice A is correct.** **(6.7(C))** "The product of 4 and u " is $4u$. "The difference of $4u$ and 7" means $4u - 7$.
- 13) **Choice C is correct.** **(6.9(C))** "2 times the flour" means multiply c by 2.
- 14) **Choice C is correct.** **(6.9(B))** The symbol $>$ means "greater than," so $p > 15$ reads as " p is greater than 15."
- 15) **Choice D is correct.** **(6.9(B))** "Over \$50" means strictly greater than 50, so the inequality is $p > 50$.
- 16) **Choice B is correct.** **(6.8(D))** $V = 2.25 \times 2 \times 3 = 4.5 \times 3 = 13.5 \text{ in}^3$.
- 17) **Choice B is correct.** **(6.11)** The top side goes from $(2, 6)$ to $(5, 6)$, both at $y = 6$. Distance is $5 - 2 = 3$ units.
- 18) **Choice A is correct.** **(6.11)** Translate: $(0, 1) \rightarrow (0 + 3, 1 + 2) = (3, 3)$.
- 19) **Choice D is correct.** **(6.12(C))** If the original mean is 20, the sum is $5 \times 20 = 100$. Multiplying each by 3 gives a new sum of 300, and new mean $= \frac{300}{5} = 60$.
- 20) **The correct answer is A uses the division method; E verifies the answer..** **(6.14(D))** A correctly divides: $4 \div \frac{1}{3} = 12$ bottles. E checks: $12 \times \frac{1}{3} = 4$ gallons. B multiplies but gets total juice, not bottle count. C divides backwards. D is conceptually sound but cumbersome.
- 21) **Choice D is correct.** **(6.12(C))** Distances from mean 7.04: 0.24, 0.14, 0.04, 0.04, 0.06, 0.16, 0.26. Sum ≈ 0.94 . MAD $\approx 0.94/7 \approx 0.134 \approx 0.15$.
- 22) **The correct answer is 6.** **(6.7(D))** Combine like terms: $4x + 2x = 6x$.
- 23) **Choice D is correct.** **(6.13(A))** The bar for the 18–24 inch range has a height of 14, representing the number of plants in that height range.
- 24) **Choice A is correct.** **(6.12(C))** Type X range = $35 - 5 = 30$; Type Y range = $30 - 10 = 20$. Type X's larger range indicates more variability in growth.
- 25) **Choice D is correct.** **(6.5(C))** Yellow candies = 7. Total candies = 30. Probability = $\frac{7}{30}$.
- 26) **Choice C is correct.** **(6.13(A))** Stem-and-leaf plots are used for numerical data. Test scores are numerical and have a reasonable range.



Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 6 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

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