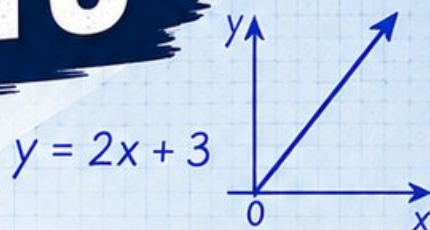


3 Texas STAAR

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



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

$$36\% \text{ of } 150 = ?$$



3 | PRINTED TESTS



2 | ONLINE TESTS



Build Confidence



Master Key Math Skills



Answer Explanations for Every Question

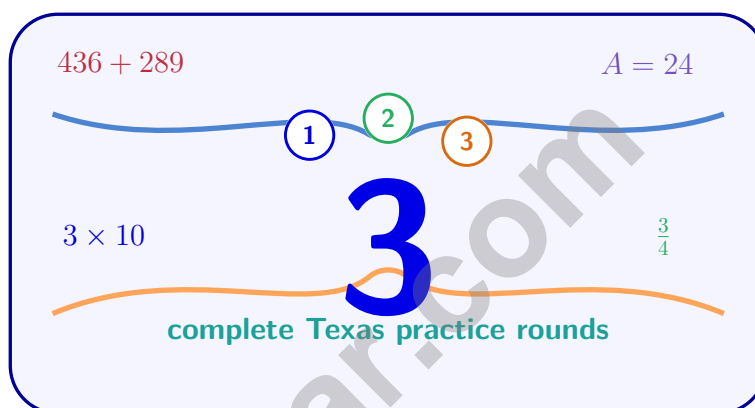


Test-Taking Strategies That Work

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

3 Texas STAAR Grade 6 Math Practice Tests

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



Three 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!

Three focused rounds using bold but careful reasoning

This book gives you three 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 three-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?

Three STAAR 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. Bold but careful reasoning means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

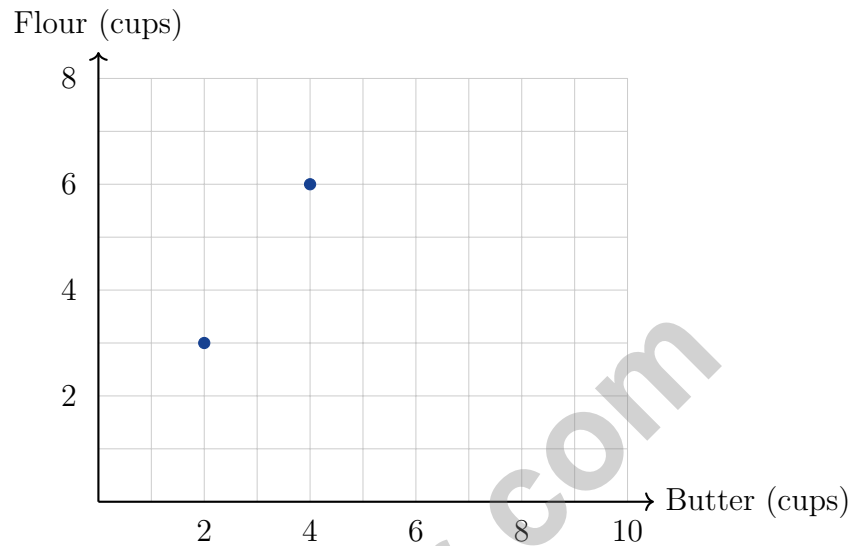


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For more practice
& answers

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- 5) A bakery makes cookies using a 2:3 ratio of butter to flour (in cups). The graph has butter on the x-axis and flour on the y-axis. If a recipe uses 8 cups of butter, what is the y-coordinate of this point?



- A. 10 C. 12
 B. 11 D. 13
- 6) A class has 40 students. Twelve students are in the chess club. What percent of the class is in chess club?
- A. 12% C. 30%
 B. 20% D. 40%
- 7) A population of 500 ants decreases by 12%. How many ants remain?
- A. 60 C. 440
 B. 380 D. 560



1) Evaluate $\frac{m+n}{2}$ when $m = \frac{1}{2}$ and $n = \frac{3}{2}$.

A. $\frac{1}{2}$

B. 2

C. $\frac{3}{2}$

D. 1

2) A rectangular prism has length 8 m, width 4 m, and height 3 m. Find the surface area.

A. 96 m^2

B. 152 m^2

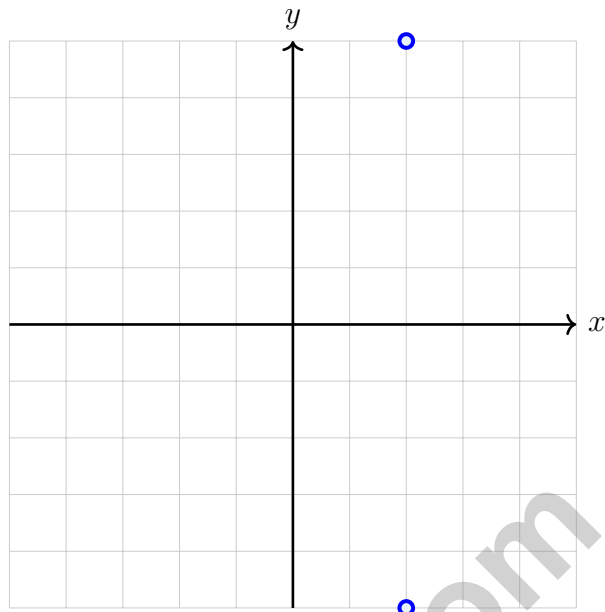
C. 192 m^2

D. 288 m^2

3) A trapezoid has bases of 12 cm and 8 cm with a height of 5 cm. What is the area?



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4)

Which transformation maps $(2, 5)$ to $(2, -5)$?

- A. Reflection over the y -axis C. Translation right
 B. Translation up D. Reflection over the x -axis

5) A pizza has a diameter of 12 inches. What is its approximate area using $\pi \approx 3.14$?

- A. 37.68 in^2 C. 113.04 in^2
 B. 75.36 in^2 D. 452.16 in^2

6) Which is a non-statistical question?

- A. How many inches tall are sixth graders in this school? C. What are the birth months of students in our class?
 B. How many wheels does a bicycle have? D. How much money do students spend on snacks each week?



1) A student answered 88 out of 100 questions correctly. What percent did the student answer correctly?

A. 78%

C. 88%

B. 80%

D. 92%

2) Which integer is least: -4 , -1 , 0 , or 3 ?

3) A car rental charges a daily rate of \$40 per day. Write an equation relating total cost C to number of days d .

A. $C = d + 40$

C. $d = 40C$

B. $C = 40d$

D. $C = \frac{40}{d}$

4) Which statement correctly identifies the height of a parallelogram?

A. The height is the length of one of the slanted sides.

C. The height is the same as the longer base.

B. The height is the perpendicular distance between two parallel sides.

D. The height is always equal to one side length.

5) A rectangular prism has a base with length 7 in and width 4 in. Its height is 5 in. Find the volume using $V = Bh$.

A. 140 in^3

C. 58 in^3

B. 99 in^3

D. 280 in^3



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

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **6.3(B)** The coefficient includes the sign. Since the term is $-4x$, the coefficient is -4 , not 4 .
- 2) **Choice D is correct.** **6.8(B)** Since $A = \frac{1}{2}bh$, doubling b doubles the area.
- 3) **Choice D is correct.** **6.12(B)** Sum = $3 + 5 + 7 + 9 + 11 = 35$. Mean = $35 \div 5 = 7$.
- 4) **Choice B is correct.** **6.4(A)** IQR = $Q_3 - Q_1 = 18 - 10 = 8$.
- 5) **Choice C is correct.** **6.5(A)** The ratio is butter:flour = $2:3$. If butter = 8 , the scale factor is $8 \div 2 = 4$. So flour = $3 \times 4 = 12$ cups. The point is $(8, 12)$.
- 6) **Choice C is correct.** **6.4(E)** $\frac{12}{40} = \frac{3}{10} = \frac{30}{100} = 30\%$ (simplify, then write as a fraction with denominator 100).
- 7) **Choice C is correct.** **6.5(B)** Decrease is 12% of $500 = 0.12 \times 500 = 60$. Remaining is $500 - 60 = 440$ ants.
- 8) **Choice C is correct.** **6.4(F)** Time = Distance \div Rate = $60 \div 15 = 4$ hours.
- 9) **Choice D is correct.** **6.4(H)** Converting feet to inches: multiply by 12 (since 1 foot = 12 inches). $8 \times 12 = 96$ inches. The student's process and answer are correct.
- 10) **Choice A is correct.** **6.14(B)** Remainder after rent and food: $\$500 - \$200 - \$100 = \200 . Savings: 38% of $\$200 = 0.38 \times 200 = \76 .
- 11) **Choice A is correct.** **6.6(C)** For a proportional relationship, when hours = 0 , pay must = 0 . Here, when hours = 0 , pay = $\$5$ (a fixed fee), so the relationship is not proportional. The equation is $p = 5h + 5$, which includes a non-zero constant term.
- 12) **Choice C is correct.** **6.10(A)** Remaining percent: $100\% - 60\% = 40\%$ of the original budget.
- 13) **The correct answer is 9.** **6.1(D)** Strawberries are the 5 -part amount. Since $15 \div 5 = 3$, each part is 3 , and bananas are 3 parts: $3 \times 3 = 9$.
- 14) **Choice A is correct.** **6.4(B)** Divide the actual length by the scale: 91 feet \div 7 feet/inch = 13 inches.
- 15) **Choice C is correct.** **6.14(D)** $\frac{3}{10} \times 5 = \frac{15}{10} = \frac{3}{2}$.
- 16) **Choice A is correct.** **6.3(E)** $2,856 \div 12 = 238$. The long division shows quotient 238 with no remainder.
- 17) **Choice C is correct.** **6.3(D)** Subtract: $0.5 - 0.3 = 0.2$ L.
- 18) **Choice D is correct.** **6.7(A)** Factors of 20 : $1, 2, 4, 5, 10, 20$. Factors of 30 : $1, 2, 3, 5, 6, 10, 15, 30$. Common factors: $1, 2, 5, 10$. GCF is 10 .
- 19) **The correct answer is Girls to boys is $10 : 15 = 2 : 3$ (Choice A is correct). Boys to total is $15 : 25 = 3 : 5$ (Choice B is correct)..** **6.4(D)** Choice A is correct because girls to boys is $10 : 15$, which simplifies to $2 : 3$. Choice B is correct because boys to total is $15 : 25$, which simplifies to $3 : 5$. The other choices either flip the order, swap which group is named first, or use the wrong total (10 girls out of 25 students is $2 : 5$, not $1 : 3$).
- 20) **Choice C is correct.** **6.5(A)** Factors of 32 : $1, 2, 4, 8, 16, 32$. Factors of 48 : $1, 2, 3, 4, 6, 8, 12, 16, 24, 48$. Common factors: $1, 2, 4, 8, 16$. GCF is 16 .
- 21) **Choice A is correct.** **6.14(D)** On a number line, -8 is to the left of -4 , so $-8 < -4$. The student confused absolute value magnitudes with signed comparisons. The correct inequality is $-4 > -8$.
- 22) **Choice C is correct.** **6.2(B)** Computing: $|-11| = 11$, $|-7| = 7$, $|4| = 4$, $|-9| = 9$. The smallest is 4 .
- 23) **Choice C is correct.** **6.2(C)** Distance = $\frac{1}{6} - (-\frac{5}{6}) = \frac{1}{6} + \frac{5}{6} = \frac{6}{6} = 1$.
- 24) **The correct answer is 40 miles per hour.** **6.4(D)** Divide distance by time: $360 \div 9 = 40$ miles per hour.
- 25) **Choice D is correct.** **6.11** The points differ only in the sign of the y -coordinate, which is the definition of reflection across the x -axis.



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A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 3 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

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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Deeper Understanding

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Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

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- ✓ The Number System
- ✓ Expressions & Equations
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- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



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