



6

Texas STAAR



GRADE 5 MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



$$5^2 = 25$$



6 FULL-LENGTH PRACTICE TESTS
Realistic style questions



STANDARDS-BASED PRACTICE
Covers all Grade 5 Math standards

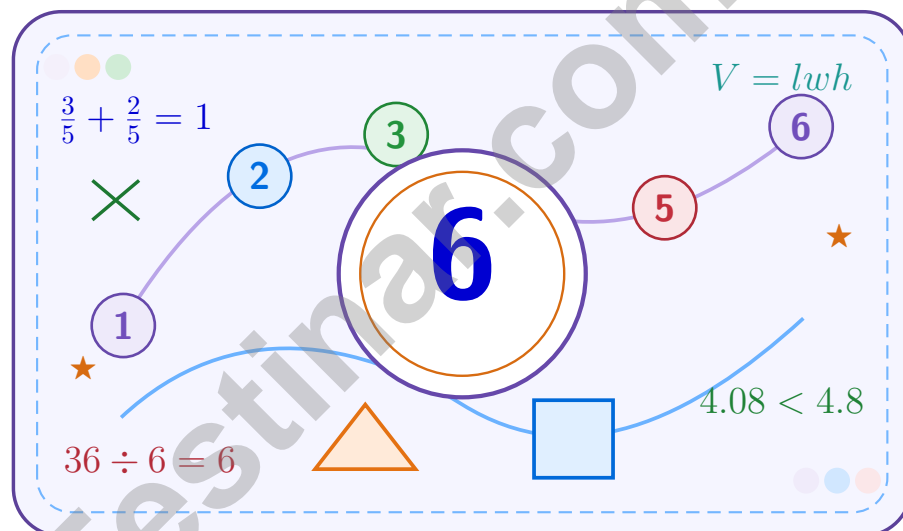


BUILD CONFIDENCE. IMPROVE SCORES.
Target weak areas and achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

6 Texas STAAR Grade 5 Math Practice Tests

A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

How to Use This Book

A simple practice routine that turns six tests into steady growth

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



Scan me

Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Texas STAAR. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



Table of Contents

★ Practice Test 1	_____	16
★ Practice Test 2	_____	31
★ Practice Test 3	_____	44
★ Practice Test 4	_____	61
★ Practice Test 5	_____	76
★ Practice Test 6	_____	90
Practice Test Answer Keys	_____	105
Practice Test Answers and Explanations	_____	109

Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

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1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

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TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

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1) Compare $\frac{4}{5} \times 35$ to 35. Which is true?

< or > ?

$\frac{4}{5} \times 35$	35
-------------------------	----

- | | |
|--|--|
| <input type="checkbox"/> A. Left < Right | <input type="checkbox"/> C. Left > Right |
| <input type="checkbox"/> B. Left = Right | <input type="checkbox"/> D. Cannot be compared |

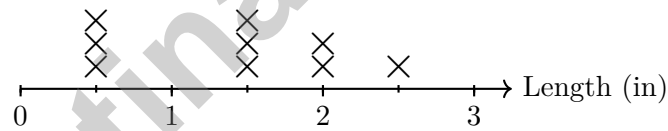
2) What is $\frac{2}{3} \times 6$?

- | | |
|--|--|
| <input type="checkbox"/> A. $\frac{12}{5}$ | <input type="checkbox"/> C. $\frac{2}{18}$ |
| <input type="checkbox"/> B. 4 | <input type="checkbox"/> D. $2\frac{2}{3}$ |

3) Compare: $(45 \div 5) + 10$ $45 \div (5 + 10)$

- | | |
|-------------------------------|---|
| <input type="checkbox"/> A. > | <input type="checkbox"/> C. = |
| <input type="checkbox"/> B. < | <input type="checkbox"/> D. Cannot tell |

4) The line plot shows lengths of caterpillars (in inches) found in a garden:



Marks are at half-inch intervals. What is the difference between the longest and shortest caterpillar?

- | | |
|---|---|
| <input type="checkbox"/> A. $1\frac{1}{2}$ inches | <input type="checkbox"/> C. $2\frac{1}{2}$ inches |
| <input type="checkbox"/> B. 3 inches | <input type="checkbox"/> D. 2 inches |



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1) Pattern: $25 \times 4 = 100$; $25 \times 40 = 1,000$; $25 \times 400 = ?$

A. 1,000

C. 100,000

B. 10,000

D. 10

2) Using the rule “multiply the input by 5,” create a T-chart table for inputs 1, 2, 3, 4:

x	y
1	5
2	10
3	15
4	?

What is the missing y value?

A. 19

C. 21

B. 25

D. 20

3) A line plot shows: 2 X's at $\frac{1}{4}$, 4 X's at $\frac{1}{2}$, 1 X at $\frac{3}{4}$. How many measurements total?

Record your answer in the space provided.

4) Find: $\frac{1}{5} \div 4$.

Record your answer in the space provided.



Grade 5 Mathematics Reference Materials

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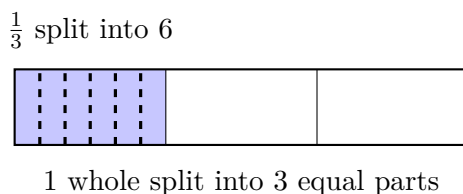
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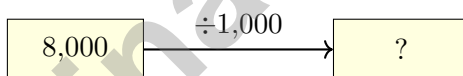
1 day = 24 hours (hr) 1 year = 52 weeks



- 1) The model shows $\frac{1}{3}$ of a whole split into 6 equal parts. What fraction of the whole is each small part?

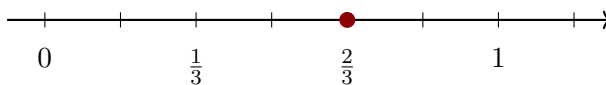


- A. $\frac{1}{3}$
 C. $\frac{1}{18}$
 B. $\frac{1}{6}$
 D. $\frac{1}{9}$
- 2) A rectangular prism has length 6 cm, width 4 cm, and height 7 cm. Which expression represents its volume?
- A. $6 + 4 + 7$
 C. $(6 + 4) \times 7$
 B. $6 \times 4 \times 7$
 D. $6 \times (4 + 7)$
- 3) Show the division with a place-value arrow diagram:



What is $8,000 \div 1,000$?

- A. 800
 C. 8
 B. 80
 D. 0.8
- 4) Use the number line below. The dot is at $\frac{2}{3}$. Which fraction with denominator 6 is equivalent to the marked point?



- A. $\frac{5}{6}$
 C. $\frac{3}{6}$
 B. $\frac{2}{6}$
 D. $\frac{4}{6}$



Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **5.6(A)** Box A: $3 \times 3 \times 3 = 27$ cubes. Box B: $6 \times 2 \times 2 = 24$ cubes. Difference: $27 - 24 = 3$ unit cubes.
- 2) **Choice C is correct.** **5.9(A)** Count the X marks at $1\frac{1}{2}$ meters. There are 3 X marks, so 3 fabric pieces are $1\frac{1}{2}$ meters long.
- 3) **Choice D is correct.** **5.6(B)** Since $40 \times 50 = 2,000$ and $2,000 \div 10 = 200$, there are 200 groups of 10 in the product.
- 4) **Choice A is correct.** **5.3(J)** One whole foot has 3 one-third-foot pieces, so $1 \div \frac{1}{3} = 3$ pieces.
- 5) **Choice C is correct.** **5.3(J)** $20 \div \frac{1}{2}$ asks how many halves are in 20. There are 2 halves in each whole, so $20 \times 2 = 40$.
- 6) **Choice A is correct.** **5.6(A)** A cubic unit is a cube where each edge measures exactly 1 unit. It has volume of 1 cubic unit.
- 7) **Choice C is correct.** **5.2(C)** The tenths digit is 9. The hundredths digit is 5. Since $5 \geq 5$, round tenths up from 9 to 10, which rolls over to 8.0 (ones digit increases by 1).
- 8) **Choice D is correct.** **5.6(B)** $8.5 \times 10^3 = 8.5 \times 1000 = 8500$, so the missing number is 8.5.
- 9) **Choice B is correct.** **5.5** The polygon shown is a rectangle. It has 4 corners, and each corner is a right angle.
- 10) **Choice C is correct.** **5.4(G)** The base area is $15 \times 5 = 75$ square centimeters. Since $300 \div 75 = 4$, the height is 4 cm.
- 11) **Choice D is correct.** **5.7** 1 kilogram = 1,000 grams. Divide: $5000 \div 1000 = 5$ kg.
- 12) **The correct answer is 9 rectangles.** **5.5** Rectangles include the rectangle-only region and the intersection: $6 + 3 = 9$. Accept either the number alone or the labeled answer.
- 13) **The correct answer is 50.** **5.4(F)** Innermost first: $8 + 2 = 10$. Then $10 \times 3 = 30$. Then $30 - 5 = 25$. Finally $25 \times 2 = 50$.
- 14) **The correct answer is 26.** **5.8(B)** Each term increases by 3. Starting at 5: term 8 is $5 + (8 - 1) \times 3 = 5 + 21 = 26$.
- 15) **Choice A is correct.** **5.3(H)** Borrow 1: $1\frac{5}{4} - 1\frac{3}{4} = \frac{2}{4} = \frac{1}{2}$ hr.
- 16) **Choice A is correct.** **5.4(F)** Ben spends $12 + 5$ dollars each week. Since he does this for 3 weeks, multiply the weekly amount by 3: $3 \times (12 + 5)$.
- 17) **Choice A is correct.** **5.3(B)** $36 \times 15 = 36 \times (10 + 5) = 360 + 180 = 540$. Marcus's answer is correct.
- 18) **Choice A is correct.** **5.6(B)** Model A: $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$. Model B: $\frac{1}{2} \times \frac{4}{5} = \frac{4}{10} = \frac{2}{5}$. Since $\frac{1}{2} > \frac{2}{5}$, Model A shows the greater product.
- 19) **Choices A, B are correct.** **5.5** An equilateral triangle has three equal sides, and a right triangle has one 90° angle. C describes isosceles, and D contradicts obtuse.
- 20) **Choice C is correct.** **5.6(B)** Multiply by 100: move decimal 2 places right: $3.6 \times 100 = 360$.
- 21) **Choice D is correct.** **5.3(H)** $\frac{1}{5} = \frac{2}{10}$. $\frac{9}{10} - \frac{2}{10} = \frac{7}{10}$.
- 22) **Choice D is correct.** **5.3(I)** At step 4, $W = 12$ and $X = 4$. The sum is $12 + 4 = 16$.
- 23) **Choice D is correct.** **5.3(H)** Both shaded regions cover the same length of bar. Multiplying numerator and denominator of $\frac{2}{3}$ by 3 gives $\frac{6}{9}$, so the fractions are equivalent.
- 24) **Choice B is correct.** **5.3(A)** Estimate: $2.89 \approx 3$ and $3.15 \approx 3$, so $3 + 3 = 6$. Exact: $2.89 + 3.15 = 6.04$ (hundredths: $9 + 5 = 14$, regroup; tenths: $8 + 1 + 1 = 10$, regroup; ones: $2 + 3 + 1 = 6$).
- 25) **Choice D is correct.** **5.6(B)** Box 1: $5 \times 3 \times 4 = 60$ cubic inches. Box 2: $6 \times 3 \times 4 = 72$ cubic inches. Combined: $60 + 72 = 132$ cubic inches.
- 26) **Choice C is correct.** **5.8(B)** Both points have the same y -coordinate (4), so they are on a horizontal line. The distance is the difference of the x -coordinates: $8 - 2 = 6$ units.
- 27) **Choice A is correct.** **5.3(I)** $3\frac{3}{4} \times 3 = \frac{15}{4} \times 3 = \frac{45}{4} = 11\frac{1}{4}$ feet.
- 28) **Choice A is correct.** **5.3(I)** $12 \times 1 = 12$ and $12 \times \frac{5}{4} = 15$. Since $\frac{5}{4} > 1$, multiplying by it increases the value: $15 > 12$.



Case Closed: Success Ahead

Greetings, Math Detective!

★ Outstanding investigation! You've cracked the code on six complete practice tests, examining every clue and solving every mathematical mystery like a brilliant detective! Each problem was a puzzle, and you methodically gathered evidence, analyzed patterns, and reached accurate conclusions. That analytical thinking you've developed will serve you well on test day and beyond! ★

◇ **Here's what master detectives know:** not every case solves itself immediately. Sometimes you need to examine the evidence from different angles, try various approaches, and remain persistent until you crack the code. You've practiced exactly that through these six tests! Your investigative skills have sharpened considerably, and you're ready to solve any mathematical mystery that comes your way! ◇

Detective's Case File: Your Skills

1. **Clue Collection:** You gather all important information from problems before solving!
2. **Pattern Recognition:** You identify mathematical patterns like a trained investigator!
3. **Evidence Analysis:** You evaluate which strategies work best for each problem type!
4. **Case Resolution:** You stay focused until you've found the correct solution!

Fascinating detective fact: the best investigators keep detailed notes about their methods so they can solve similar cases faster in the future. Your brain has been doing exactly that throughout these six tests, storing successful strategies in your mental filing cabinet. On test day, you'll be able to retrieve those proven methods instantly!

If you discover a particularly clever problem-solving strategy or want to share your mathematical mysteries, send your findings to reza@testinar.com. I love hearing about breakthrough investigations!

Reza Nazari & Jay Daie

Your Math Coaches (One Step at a Time)

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



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Smart Practice. Stronger Results.