

# 4

COMPLETE

# Texas STAAR

Grade

# MATH

# 5

## PRACTICE TESTS

Standards-Based Test Prep with  
Mixed Review, Word Problems,  
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**  
Built to reflect the test format and rigor



- ✓ **COVERS ALL ESSENTIAL TOPICS**  
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**  
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**  
Detailed explanations for every question



**BUILD STRONG  
MATH SKILLS  
& TEST READINESS**



**IMPROVE ACCURACY,  
SPEED, AND  
PROBLEM SOLVING**



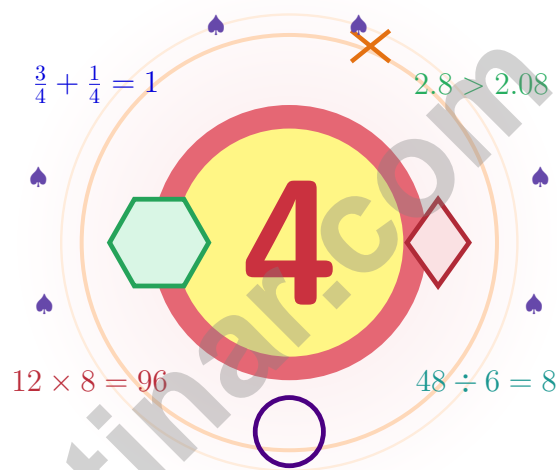
**PERFECT FOR  
CLASSROOM,  
HOME, OR  
SELF-STUDY**



**ALIGNED TO  
TEXAS  
STATE STANDARDS  
(STAAR)**

# 4 Texas STAAR Grade 5 Math Practice Tests

*A four-test journey for Texas Grade 5 thinkers*



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Lone Star State build calm, careful, confident habits.

**Jay Daie and Reza Nazari**



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# Texas, Your Four-Test Math Journey Begins

Four steady test-day rehearsals, woven into one strong routine

## For Every Curious Mind in Texas

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is like a Texas sky – huge, wide, and full of room for one careful thought after another.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

### Notice

Notice numbers, units, labels, and tricky words.

### Sketch

Sketch a model, table, or quick number line.

### Confirm

Confirm your answer with a quick estimate.

**A strong mission habit for Texas:** keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

# Four Tests, Four Lessons

A four-step routine that turns practice into real improvement

## Step 1: Plan

**Plan a quiet hour for one full test.**  
Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

## Step 2: Practice

**Take the test with calm focus.**  
Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

## Step 3: Inspect

**Inspect every answer like a careful builder.**  
Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

## Step 4: Adjust

**Adjust what needs adjusting for the next test.**  
Read the explanation, fix the work, and carry that lesson into the very next test.

## A Four-Week Texas Mission Map

Week	Mission Focus
Week 1	Take Test 1 like the first mile of a long ranch trail.
Week 2	Take Test 2 and aim attention at word problems and step-showing.
Week 3	Take Test 3 to polish fractions, decimals, and conversions.
Week 4	Take Test 4 with calm, careful, confident work.



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# What These Four Tests Build

## What these four practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Lone Star State for the Texas STAAR with the steady focus of a long ranch morning. The goal is bigger than collecting right answers. Students are practicing how to read carefully, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every day.

### Selected-Response Questions

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

### Constructed-Response Questions

Students show steps, explain a method, or support an answer with clear math. Strong reasoning matters because it shows how the answer was found.

### Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- tables, line plots, patterns, and coordinate points
- geometry and multi-step real-world problem solving

**What strong STAAR-style work looks like:** accurate math, readable steps, the right labels or units, and a final answer that really matches the question being asked.



# Table of Contents

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## 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)

#### Metric

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

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

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

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

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



1) Which multiplication gives  $\frac{4}{21}$ ?

A.  $\frac{2}{3} \times \frac{1}{7}$

B.  $\frac{4}{7} \times \frac{2}{3}$

C.  $\frac{1}{3} \times \frac{4}{7}$

D.  $\frac{3}{4} \times \frac{1}{7}$

2) Compare without calculating:  $12 \times 9$    $(12 \times 10) - 12$

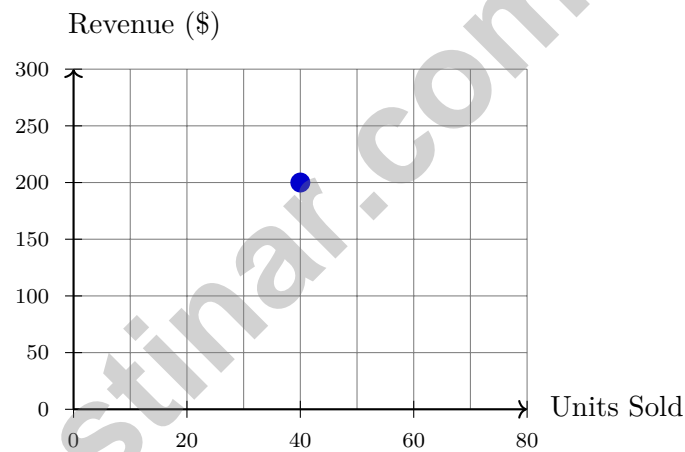
A.  $>$

B.  $<$

C.  $=$

D. Cannot tell

3) A store plots sales data where the x-axis is “Units Sold” and the y-axis is “Revenue in Dollars.” What does point (40, 200) tell us about the sale?



A. 40 units sold for \$40

B. 40 units sold for \$200

C. 240 units sold in total

D. 200 units sold for \$40

4) What is the value of  $(20 \div 2) + 6$ ?

A. 4

B. 8

C. 16

D. 20



5) What is  $9 \div \frac{1}{3}$ ?

A. 27

C. 18

B. 9

D. 36

6) A bakery box is 14 inches long, 10 inches wide, and 6 inches tall. Two such boxes are stacked. What is the total volume?

Two boxes stacked  
each  $14 \times 10 \times 6$  in

A.  $840 \text{ in}^3$

C.  $1680 \text{ in}^3$

B.  $1200 \text{ in}^3$

D.  $2000 \text{ in}^3$

7) A pizza parlor sells large pizzas for \$16.50 and small pizzas for \$11.25. A party orders 2 large and 3 small pizzas. What is the total cost?

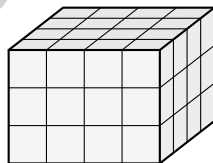
A. \$75.75

C. \$66.75

B. \$71.25

D. \$79.50

8) A storage unit is shaped like a rectangular prism: 4 units by 4 units by 3 units. How many unit cubes fit inside?



A. 48 unit cubes

C. 36 unit cubes

B. 42 unit cubes

D. 52 unit cubes



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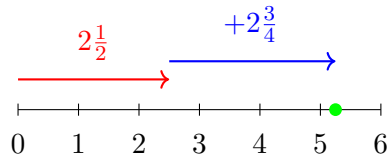
1) Which number is equivalent to 5.300?

A. 5.3

C. 5.003

B. 5.03

D. 500.3



2)

Number line:  $2\frac{1}{2} + 2\frac{3}{4} = ?$

A.  $4\frac{1}{4}$

C.  $5\frac{1}{4}$

B.  $4\frac{3}{4}$

D.  $5\frac{3}{4}$

3) A sports field is 45.6 meters. It is divided into 8 equal sections. How long is each section?

A. 5.5 m

C. 5.8 m

B. 5.6 m

D. 5.7 m



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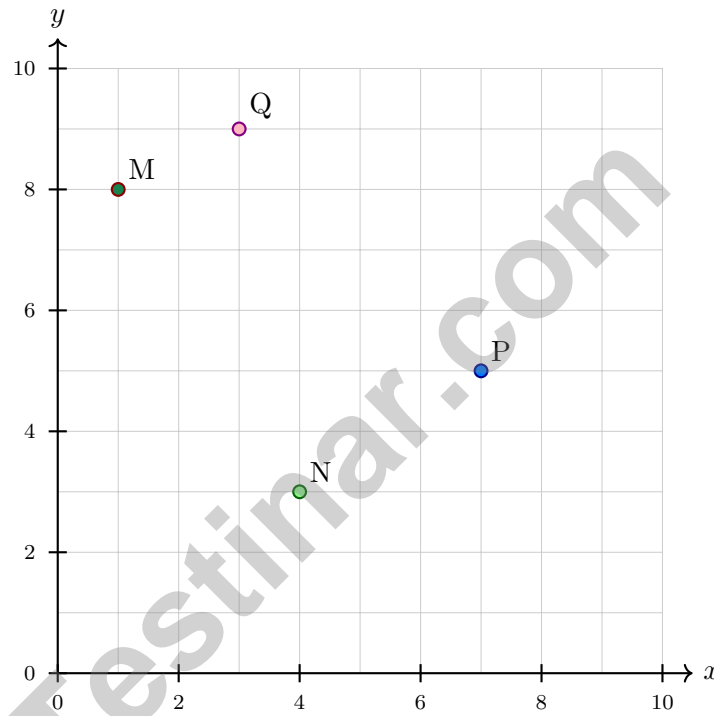
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1) A rectangular prism has volume  $256 \text{ cm}^3$ , length 16 cm, and width 4 cm. What is the height?

- A. 2 cm                                       C. 4 cm  
 B. 3 cm                                       D. 5 cm

2) Which point is located at  $(4, 3)$  on the coordinate plane?



- A. Point M                                       C. Point P  
 B. Point N                                       D. Point Q

3) A painter uses  $\frac{3}{5}$  of a gallon of paint per wall. He paints  $\frac{2}{3}$  of a wall. How much paint does he use?

- A.  $\frac{5}{8}$  gallon                                       C.  $\frac{3}{5}$  gallon  
 B.  $\frac{6}{15}$  gallon or  $\frac{2}{5}$  gallon                                       D. 1 gallon



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- 1) Multi-step: Write 4.53 in word form, then identify which place the digit 5 is in.
- A. Four and fifty-three hundredths; tenths place
- B. Four and fifty-three hundredths; hundredths place
- C. Four point five three; ones place
- D. Four and five three; tenths place
- 2) Estimate the product of  $312 \times 8$  by rounding 312 to the nearest hundred, then multiply.
- A. 2,000
- B. 3,200
- C. 2,800
- D. 2,400
- 3) What is  $7.83 \times 1,000$ ?
- A. 78.3
- B. 783
- C. 7,830
- D. 78,300
- 4) A delivery company charges \$3.50 per package. A business ships 42 packages per week. How much does it cost per week?
- A. \$147.00
- B. \$140.00
- C. \$145.00
- D. \$135.00
- 5) Error Check: Juan found the next number in pattern 2, 5, 10, 17, 26 by adding 5. Is this correct?
- A. Yes, the pattern is add 5
- B. No, the differences increase: add 3, then 5, then 7, then 9
- C. No, the pattern multiplies by 2
- D. No, the pattern is subtract 1



## 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 C is correct.** **5.3(I)**  $\frac{1}{3} \times \frac{4}{7} = \frac{4}{21}$  (multiply numerators and denominators).
- 2) **Choice C is correct.** **5.4(F)** The expression  $(12 \times 10) - 12$  means 10 groups of 12 with 1 group of 12 removed, leaving 9 groups of 12. That equals  $12 \times 9$ .
- 3) **Choice B is correct.** **5.8(C)** The x-coordinate (40) is units sold, and the y-coordinate (200) is revenue in dollars. So 40 units were sold for \$200.
- 4) **Choice C is correct.** **5.4(F)** Evaluate inside the parentheses first:  $20 \div 2 = 10$ . Then add 6 to get 16.
- 5) **Choice A is correct.** **5.3(J)**  $9 \div \frac{1}{3} = 9 \times 3 = 27$ .
- 6) **Choice C is correct.** **5.6(B)** One box:  $14 \times 10 \times 6 = 840$  in<sup>3</sup>. Two boxes:  $840 \times 2 = 1680$  in<sup>3</sup>.
- 7) **Choice C is correct.** **5.4(B)** Large pizzas:  $2 \times 16.50 = 33.00$  dollars. Small pizzas:  $3 \times 11.25 = 33.75$  dollars. Total:  $33.00 + 33.75 = 66.75$  dollars.
- 8) **Choice A is correct.** **5.6(A)** Use length, width, and height to count the cubes.  $4 \times 4 = 16$  cubes per layer, and 3 layers make  $16 \times 3 = 48$ .
- 9) **Choice B is correct.** **5.9(A)** Add the ribbon lengths shown:  $2\left(\frac{1}{4}\right) + 3\left(\frac{1}{2}\right) + 2\left(\frac{3}{4}\right) + 1 + 1\frac{1}{4} = 5\frac{3}{4}$  yards.
- 10) **Choice C is correct.** **5.2(A)** 4.05 has a 0 in the tenths place and a 5 in the hundredths place, so it reads as “four and five hundredths”.
- 11) **Choice D is correct.** **5.10(C)**  $\frac{7}{8} \approx 1$  and  $\frac{3}{9} = \frac{1}{3} \approx \frac{1}{2}$ . So  $\frac{7}{8} - \frac{3}{9} \approx 1 - \frac{1}{2} = \frac{1}{2}$ .
- 12) **The correct answer is  $(25 + 4 \cdot 3) \div 2$ .** **5.4(F)** The product of 4 and 3 is  $4 \times 3$ ; add 25 to that product, then divide the entire result by 2.
- 13) **Choice D is correct.** **5.3(A)** Add:  $1.89 + 2.14 = 4.03$  (hundredths:  $9 + 4 = 13$ , regroup; tenths:  $8 + 1 + 1 = 10$ , regroup; ones:  $1 + 2 + 1 = 4$ ).
- 14) **The correct answer is (6, 4).** **5.8(B)** Move 6 units right for the x-coordinate and 4 units up for the y-coordinate, so the ordered pair is (6, 4).
- 15) **Choice A is correct.** **5.6(B)** Length used =  $\frac{4}{5} \times \frac{3}{4} = \frac{12}{20}$  yard, and  $\frac{12}{20} = \frac{3}{5}$  yard.
- 16) **Choice C is correct.** **5.4(G)** The base layer has  $5 \times 3 = 15$  square units. Divide the volume by the base area:  $30 \div 15 = 2$ , so the height is 2 feet.
- 17) **Choice B is correct.** **5.7** Since 1 pound = 16 ounces, divide 16 by 8:  $16 \div 8 = 2$  packages.
- 18) **Choices A, B are correct.** **5.3(E)** Multiplying 12 by a factor greater than 1 makes a product greater than 12, so A and B work. C and D have factors less than 1, so those products are less than 12.
- 19) **Choice B is correct.** **5.3(G)**  $2,904 \div 44 = 66$  crates. Check:  $44 \times 66 = 2,904$ .
- 20) **The correct answer is  $3\frac{5}{6}$ .** **5.3(H)** Add wholes:  $1 + 2 = 3$ . Add fractions:  $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ . Total:  $3\frac{5}{6}$ .
- 21) **Choice C is correct.** **5.5** A shape with four right angles and two pairs of parallel sides is a rectangle. Since not all sides are equal, it is not a square.
- 22) **Choice C is correct.** **5.3(H)** Option C is a division problem, not an addition of fractions problem. Options A, B, and D all involve adding fractions with unlike denominators.
- 23) **Choice D is correct.** **5.3(I)** Since  $\frac{9}{10} < 1$ , any positive number multiplied by  $\frac{9}{10}$  always becomes smaller.
- 24) **Choice B is correct.** **5.6(B)** Following the pattern, each larger power of 10 reduces the result by a factor of 10:  $4,500 \div 1,000 = 4.5$ .
- 25) **The correct answer is 10.** **5.4(F)** The expression  $(45 - 9)$  is the original amount. Multiplying it by 10 makes 10 copies of that amount.
- 26) **Choice A is correct.** **5.3(A)** Line up decimal points and subtract place by place.  $16.83 - 4.58 = 12.25$ . This confirms the answer.
- 27) **Choice C is correct.** **5.3(J)** Each whole contains 4 pieces of size  $\frac{1}{4}$ . With 2 wholes, there are  $2 \times 4 = 8$  pieces.



**Personal Trainer Wrap-Up**

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**Math Athlete, Listen Up!**

◇ 4 practice tests done. That's serious training. Your math muscles are strong, your endurance is high, and your reflexes (recognizing problem types) are quick. You're in great shape for the big test. ◇

★ **Trainer's wisdom:** muscle memory is real, even in math. The more you do something, the more your brain knows how to do it without thinking. You've built that muscle memory over 4 tests. Now it's automatic. ★

**Athlete's Performance Card**

- **Endurance:** TOP-TIER! You can finish a long test without burnout.
- **Strength:** STRONG! You handle multi-step problems with power.
- **Speed:** SHARP! You move efficiently from question to question.
- **Recovery:** GREAT! You bounce back fast from tough questions.

**Trainer's tip:** on test day, hydrate, breathe deeply, and warm up with the easier questions first. Build your rhythm. Your training will carry you the rest of the way.

If you'd like to share your experience or have questions, please email me at [reza@testinar.com](mailto:reza@testinar.com). I'd love to hear from you!

**Reza Nazari & Jay Daie**

Your Math Trainer (You're In Great Shape)

# 4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

## WHAT'S INSIDE:



### 4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



### COVERS ALL GRADE 5 TOPICS

Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



### MIXED REVIEW & WORD PROBLEMS

Build problem-solving skills with mixed review questions and real-world word problems.



### DETAILED ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



### BUILD CONFIDENCE & IMPROVE SCORES

Practice consistently, reduce test anxiety, and achieve your best score!



**PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.**



**Strengthen**  
Math Skills



**Improve**  
Accuracy  
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**Master**  
Essential  
Concepts



**Boost**  
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