

$\frac{2}{3}$

0,25



%

FULL-LENGTH

Texas

$\frac{2}{4}$

$7 \times 8 =$



7×8

$56 \div 7$

$(a+b)^2$

3

★★★★★
Aligned to State Standards

STAAR

MATH

Grade

5

PRACTICE TESTS

Complete State Standards Review
with Answer Key and
Essential Math Skills Practice



3 Full-Length Practice Tests
Aligned to State Standards



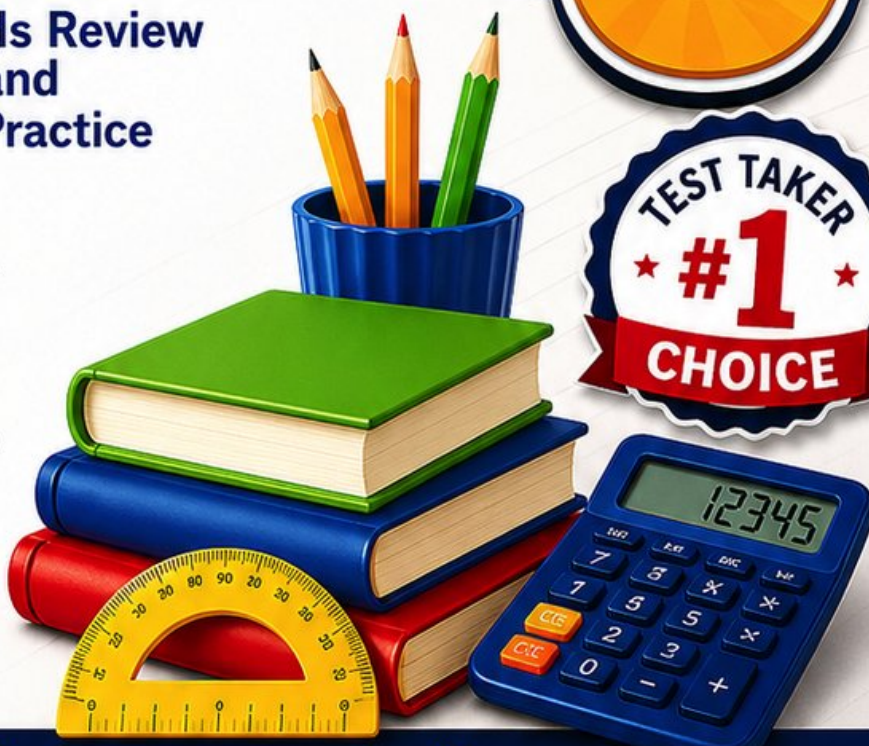
Covers All Grade 5 Math Topics
Numbers & Operations, Fractions,
Decimals, Geometry, Measurement,
Data & Problem Solving



Build Confidence
Strengthen Skills • Improve Accuracy
• Boost Test Readiness



Detailed Answer Key
Step-by-Step Explanations
for All Questions



WRITTEN FOR
GRADE 5 STUDENTS



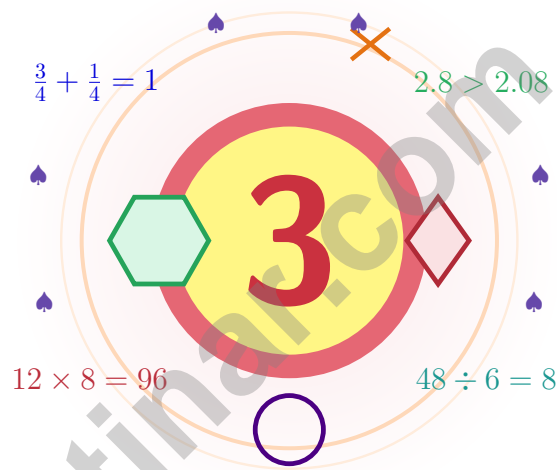
PERFECT FOR
TEST PREP & REVIEW



CLASSROOM, HOME,
OR SELF-STUDY USE

3 Texas STAAR Grade 5 Math Practice Tests

Lone-Star math for thinkers who go big and steady



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The Lone Star State walk in ready to think.

Jay Daie and Reza Nazari



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Welcome Aboard, Texas Math Crew

Lone-Star math for thinkers who go big and steady

Just for Texas Grade 5 Thinkers

Math is like a Texas sky – huge, wide, and full of room for one careful thought after another. Some questions will feel easy from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

Read

Read with care – math problems hide their gifts.

Try

Try a strategy that fits the size of the numbers.

Reflect

Reflect after each problem to lock the lesson in.

A Texas promise to yourself: I will think big like the Texas sky and work careful like a Texas rancher.

Your Step-by-Step Plan

A simple game plan that turns practice into real progress

Step 1: Notice

Notice the structure: warm-up, test, review.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Practice

Practice one full test under quiet conditions.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions, sort out what went sideways, and notice which skills are calling for more attention.

Step 4: Polish

Polish the rough spots before test number two.

Read the explanation, fix the work, and carry that lesson forward into the next test.

A Three-Week Climb

Week 1	Test 1 is your map-making week.
Week 2	Test 2 is your fix-it week.
Week 3	Test 3 is your show-up-strong week.



Scan me

Practice Test Preview

What these 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 getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

Selected-Response Questions

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

Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually 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
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

What strong work looks like on the STAAR: the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers 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) Place-value chart: after multiplying 0.073 by 100, fill in the result.

Ones	Tenths	Hundredths	Value
?	?	?	$0.073 \times 100 = ?$

- A. Ones=0, Tenths=7, Hundredths=3 C. Ones=73, Tenths=0, Hundredths=0
 B. Ones=7, Tenths=0, Hundredths=3 D. Ones=7, Tenths=3, Hundredths=0
- 2) A student creates two rectangular prisms from clay:
 Prism A: $8 \text{ cm} \times 6 \text{ cm} \times 5 \text{ cm}$
 Prism B: $10 \text{ cm} \times 4 \text{ cm} \times 6 \text{ cm}$
 Which prism requires more clay?
- A. Prism A D. Cannot determine from given information
 B. Prism B
 C. Both use equal clay
- 3) A child is 1.35 meters tall. How many centimeters is that?
- A. 13.5 cm C. 1,350 cm
 B. 135 cm D. 13,500 cm
- 4) Estimate $7\frac{2}{5} - 3\frac{4}{7}$ by rounding each mixed number to the nearest half.

Record your answer in the space provided.



- 5) A board is 12 feet long. It is cut into pieces that are each one third of a foot. Which division equation matches the situation?
- A. $\frac{1}{3} \div 12 = n$ C. $12 \div \frac{1}{3} = n$
 B. $12 \times \frac{1}{3} = n$ D. $12 + \frac{1}{3} = n$
- 6) Money: A pen costs \$0.45. How much do 100 pens cost?
- A. \$4.50 C. \$450
 B. \$45 D. \$4,500
- 7) A gift box: length 12 cm, width 8 cm, height 5 cm. Volume = ?
- A. 480 cm^3 C. 96 cm^3
 B. 25 cm^3 D. 60 cm^3
- 8) A bag has 1 pound of flour. Each small recipe uses $\frac{1}{2}$ pound. How many small recipes can be made?
- A. 1 recipe C. 4 recipes
 B. 2 recipes D. 6 recipes
- 9) Evaluate: $(8 + 2) \times (3 - 1)$
- A. 10 C. 20
 B. 15 D. 25
- 10) Evaluate: $56 - (7 \times 4) + 18 \div 3$
- A. 30 C. 34
 B. 32 D. 36



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

LENGTH

Customary	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

WEIGHT AND MASS

Customary	Metric
1 pound (lb) = 16 ounces (oz)	1 kilogram (kg) = 1,000 grams (g)
	1 gram (g) = 1,000 milligrams (mg)

TIME

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1 hour (hr) = 60 minutes (min)	1 year = 12 months
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1) Add: $\frac{1}{6} + \frac{1}{3}$. Write the answer in simplest form.

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

B. $\frac{2}{9}$

C. $\frac{1}{3}$

D. $\frac{5}{6}$

2) Subtract: $\frac{4}{5} - \frac{1}{2}$

A. $\frac{2}{5}$

B. $\frac{1}{5}$

C. $\frac{3}{10}$

D. $\frac{4}{10}$

3) The area model below represents $2\frac{1}{2} \times 1\frac{1}{3}$ by breaking both mixed numbers into parts.

	2	$\frac{1}{2}$
1	2×1	$\frac{1}{2} \times 1$
$\frac{1}{3}$	$2 \times \frac{1}{3}$	$\frac{1}{2} \times \frac{1}{3}$

$2\frac{1}{2}$ wide \times $1\frac{1}{3}$ tall

What is the total area?

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

B. $3\frac{1}{3}$

C. $3\frac{1}{6}$

D. 4

4) A coffee shop graphs sales. The x-axis shows hours open, and the y-axis shows cups sold. What does the point (7, 84) mean?

 A. hours open is 84 when cups sold is 7

 C. cups sold is 84 when hours open is 7

 B. hours open and cups sold are both 91

 D. cups sold is 7 when hours open is 84

5) Which triangle has one right angle and all three sides different?

 A. Right isosceles

 C. Acute isosceles

 B. Obtuse isosceles

 D. Right scalene


Grade 5 Mathematics Reference Materials

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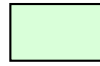
1) Which shape is NOT a parallelogram?



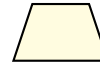
A



B



C



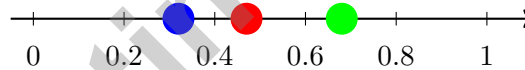
D

 A. A C. C B. B D. D

2) How many unit cubes fit inside a $2 \times 4 \times 5$ rectangular prism?

Record your answer in the space provided.

3) Plot these decimals on a number line from 0 to 1: 0.32, 0.47, 0.68.



Which decimal is closest to 0.3?

 A. All are the same distance C. 0.68 B. 0.47 D. 0.32

4) A classroom aquarium measures 12 inches long, 6 inches wide, and 8 inches tall. What is its volume?

 A. 576 cubic inches C. 96 cubic inches B. 288 cubic inches D. 26 cubic inches

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.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **5.6(B)** $0.073 \times 100 = 7.3$ because each digit shifts 2 places toward greater place values.
- 2) **Choice C is correct.** **5.6(B)** Prism A: $8 \times 6 \times 5 = 240 \text{ cm}^3$. Prism B: $10 \times 4 \times 6 = 240 \text{ cm}^3$. Since the volumes match, both prisms use the same amount of clay.
- 3) **Choice B is correct.** **5.7** $1 \text{ m} = 100 \text{ cm}$. Multiply: $1.35 \times 100 = 135 \text{ cm}$.
- 4) **The correct answer is about 4.** **5.10(C)** $7\frac{2}{5} \approx 7\frac{1}{2}$ and $3\frac{4}{7} \approx 3\frac{1}{2}$. Then $7\frac{1}{2} - 3\frac{1}{2} = 4$. Accept equivalent estimates that are clearly close to 4.
- 5) **Choice C is correct.** **5.3(J)** Use total amount divided by the size of one piece. The equation is $12 \div \frac{1}{3} = n$.
- 6) **Choice B is correct.** **5.6(B)** One pen costs 0.45. For 100 pens, move the decimal two places right: $0.45 \times 100 = 45$.
- 7) **Choice A is correct.** **5.6(B)** $V = l \times w \times h = 12 \times 8 \times 5 = 480 \text{ cm}^3$.
- 8) **Choice B is correct.** **5.3(J)** There are two half-pound amounts in one pound: $1 \div \frac{1}{2} = 2$ recipes.
- 9) **Choice C is correct.** **5.4(F)** Each set of parentheses gives you a small problem to solve first: $(8 + 2) = 10$ and $(3 - 1) = 2$. Multiply those results to get $10 \times 2 = 20$.
- 10) **Choice C is correct.** **5.4(F)** The parentheses give $7 \times 4 = 28$, and the division gives $18 \div 3 = 6$. Now finish left to right: $56 - 28 + 6 = 34$.
- 11) **Choice B is correct.** **5.4(F)** The expression $50 - 10$ is one amount. Multiplying that amount by 2 makes two copies, so the first expression is twice as much.
- 12) **Choice D is correct.** **5.3(A)** Add: $\$3.45 + \$2.28 = \$5.73$ (hundredths: $5 + 8 = 13$, regroup; tenths: $4 + 2 + 1 = 7$; dollars: $3 + 2 = 5$).
- 13) **Choice C is correct.** **5.5** A triangle is a polygon, but it has 3 sides rather than 4 sides.
- 14) **Choice B is correct.** **5.3(G)** $2,288 \div 52 = 44$ remainder 0 (divides evenly). Check: $52 \times 44 = 2,288$.
- 15) **Choice C is correct.** **5.8(B)** The top-right vertex is 9 units to the right of the origin and 4 units up, so its ordered pair is (9, 4).
- 16) **Choice D is correct.** **5.3(H)** Common denominator for 3 and 2 is 6. $\frac{1}{3} = \frac{2}{6}$ and $\frac{1}{2} = \frac{3}{6}$.
- 17) **Choice A is correct.** **5.3(J)** $6 \div \frac{1}{3} = 6 \times 3 = 18$.
- 18) **Choice A is correct.** **5.8(B)** Subtract 2 from each input to get the output: $2 - 2 = 0$, $3 - 2 = 1$, $4 - 2 = 2$, and $5 - 2 = 3$.
- 19) **Choices A, B are correct.** **5.3(H)** C gives $\frac{3}{6} = \frac{1}{2}$; D gives $\frac{7}{12}$.
- 20) **Choice D is correct.** **5.8(B)** The rule is: multiply each term by its position number. $48 \times 5 = 240$.
- 21) **Choice B is correct.** **5.3(B)** Multiply: $42 \times 38 = 42 \times (40 - 2) = (42 \times 40) - (42 \times 2) = 1,680 - 84 = 1,596$ seats.
- 22) **Choice D is correct.** **5.6(A)** Base: $6 \times 6 = 36$ sq. units per layer. With 3 layers: $36 \times 3 = 108$ cubic units.
- 23) **Choice A is correct.** **5.3(H)** Use a common denominator of 12. Since $\frac{4}{6} = \frac{8}{12}$ and $\frac{3}{4} = \frac{9}{12}$, $\frac{3}{4}$ is greater.
- 24) **The correct answer is 12.** **5.6(B)** Dividing by 100 removes two zeros: $1,200 \rightarrow 12$.
- 25) **The correct answer is $4\frac{1}{4}$ feet.** **5.9(A)** $3 \times \frac{3}{4} + 2 \times \frac{1}{2} + 1 = 2\frac{1}{4} + 1 + 1 = 4\frac{1}{4}$ feet.
- 26) **Choice B is correct.** **5.5** The tick marks show two pairs of equal sides next to each other, which is a key property of a kite.
- 27) **Choice A is correct.** **5.6(B)** A is correct. B equals 0.054, C is wrong, and D equals 0.054.
- 28) **Choice C is correct.** **5.6(B)** Base area = $25 \times 5 = 125 \text{ cm}^2$. Height = $500 \div 125 = 4 \text{ cm}$.
- 29) **Choice D is correct.** **5.4(D)** Volume counts cubic units inside the whole solid. Splitting into non-overlapping prisms lets you add the cubic units from each part.
- 30) **Choice D is correct.** **5.8(B)** Check: (1, 7) gives $4(1) + 3 = 7$ check; (2, 11) gives $4(2) + 3 = 11$ check; (3, 15) gives $4(3) + 3 = 15$ check; (4, 19) gives $4(4) + 3 = 19$ check.



Dear Hero of This Story,

◇ Once upon a time, there was a brave Grade 5 student who decided to take 3 practice tests. At first, the problems were tough. But the student kept showing up, kept trying, and kept learning. Slowly, the tough problems became easier. The student's confidence grew. By the time the 3th test was finished, that student had become the hero of their own math story. That student is you. ◇

★ **Storytellers know:** every great story has a hard middle. The hard middle is where the hero grows. You've lived your hard middle, and now your story is heading toward a strong ending: a confident test day. ★

Your Hero's Toolkit

- **Brave Heart:** You face hard problems instead of running.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check your work.
- **Kind Spirit:** You're patient with yourself when you make mistakes.

Storyteller's tip: when you sit down on test day, remember the hero you've become. The chapters before this moment have made you stronger. Now, write your best chapter yet.

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

Reza Nazari & Jay Daie

Your Math Storyteller (The Best Pages Are Ahead)

Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



WHAT'S INSIDE:



3 Full-Length Grade 5 Math Practice Tests

Realistic test format to build familiarity and confidence.



Covers All Essential Math Topics

Fractions, decimals, geometry, measurement, data, number operations, and more.



Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



Detailed Answer Key

Step-by-step explanations to help your child learn from mistakes and improve.



Track Progress & Improve

Use score trackers to identify strengths and focus on areas that need more practice.



The Smarter Way to Prepare!

Consistent practice builds stronger skills, sharper thinking, and test-day success.

- ✓ Reinforce classroom learning
- ✓ Improve accuracy and speed
- ✓ Reduce test anxiety
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