

$\frac{2}{3}$

FULL-LENGTH

$\frac{2}{4}$

0,25

Louisiana

$7 \times 8 =$



Aligned to State Standards

LEAP

7×8

MATH

$56 \div 7$

Grade

5

$(a+b)^2$

PRACTICE TESTS

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



3 Full-Length Practice Tests
Aligned to State Standards



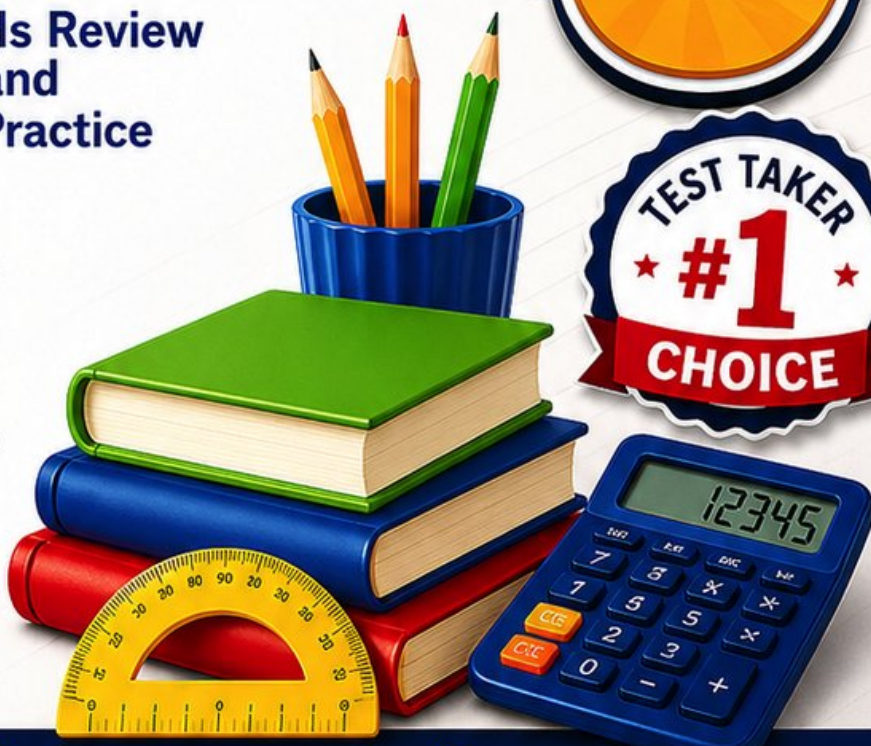
Covers All Grade 5 Math Topics
Numbers & Operations, Fractions,
Decimals, Geometry, Measurement,
Data & Problem Solving



Build Confidence
Strengthen Skills • Improve Accuracy
• Boost Test Readiness



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



WRITTEN FOR
GRADE 5 STUDENTS



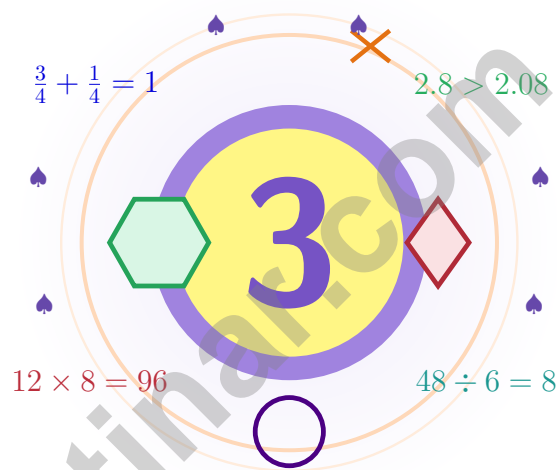
PERFECT FOR
TEST PREP & REVIEW



CLASSROOM, HOME,
OR SELF-STUDY USE

3 Louisiana LEAP Grade 5 Math Practice Tests

Bayou-smart math for steady-hearted thinkers



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

Jay Daie and Reza Nazari



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Louisiana, Welcome to Your Practice Studio

Bayou-smart math for steady-hearted thinkers

Louisiana Grade 5: This Is for You

Math thinking flows like a Louisiana bayou – slow, deep, full of quiet curves, and going somewhere on purpose.

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.

See

See the question fully before you start the math.

Plan

Pick a strategy that fits the numbers in front of you.

Build

Build the answer step by step, no shortcuts.

A Louisiana promise to yourself: I will move through problems like a paddler in the Atchafalaya: read the water, trust the path, keep paddling.

Three Tests, One Routine

A simple game plan that turns practice into real progress

Step 1: Set

Set the table – pencil ready, distractions gone.

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

Step 2: Solve

Take one whole test in one quiet sitting.

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

Step 3: Look Back

Walk through your answers without rushing.

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

Step 4: Climb

Pick one or two skills to sharpen before next time.

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

Three-Week Math Boot Camp

Week 1	Test 1 sets your baseline. Notice what feels easy and what wobbles.
Week 2	Test 2 is for repair. Slow down on the topics that tripped you up.
Week 3	Test 3 is for proof. Show how steady your thinking has become.



Scan me

About These Three Tests

What these practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Pelican State for the Louisiana LEAP with the calm rhythm of a delta 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 LEAP: 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)

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Metric

1 meter (m) = 100 centimeters (cm)

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CAPACITY

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

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



1) A painter covers $\frac{2}{9}$ of a wall Monday and $\frac{4}{9}$ Wednesday. How much of the wall is painted total?

- A. $\frac{2}{9}$
 B. $\frac{4}{9}$

- C. $\frac{6}{9}$
 D. $\frac{8}{9}$

2) Which set of equivalent fractions shows $\frac{5}{6}$ and $\frac{3}{8}$ rewritten with LCD 24?

- A. $\frac{15}{24}$ and $\frac{9}{24}$
 B. $\frac{20}{24}$ and $\frac{12}{24}$

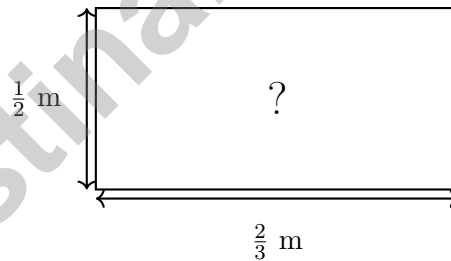
- C. $\frac{20}{24}$ and $\frac{9}{24}$
 D. $\frac{15}{24}$ and $\frac{12}{24}$

3) What is $\frac{1}{2} \div 3$?

- A. $\frac{3}{2}$
 B. $\frac{1}{6}$

- C. $\frac{2}{3}$
 D. $\frac{1}{5}$

4) A rectangular garden plot is $\frac{2}{3}$ meter long and $\frac{1}{2}$ meter wide. What is the area? Give the answer in simplest form.



- A. $\frac{2}{5}$ m²
 B. 1 m²

- C. $\frac{3}{5}$ m²
 D. $\frac{1}{3}$ m²

5) Which expression equals 4.5?

- A. $3,500 \div 10$
 B. $450 \div 100$

- C. $8,600 \div 1,000$
 D. $1,200 \div 100$



6) What is 7×10^2 ?

A. 49

B. 70

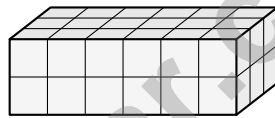
C. 700

D. 7000

7) What is the x-coordinate of the point (7, 2)?

Record your answer in the space provided.

8) What are the dimensions of a rectangular prism that contains exactly 36 unit cubes?



A. $2 \times 2 \times 8$

B. $2 \times 3 \times 6$

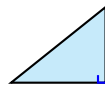
C. $3 \times 4 \times 2$

D. $3 \times 3 \times 5$

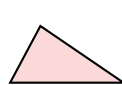
9) Look at the triangles. Which one is a right triangle?



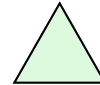
A



B



C



D

A. A

B. D

C. C

D. B



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1) Which shows a correct way to multiply $\frac{1}{3} \times \frac{2}{5}$?

A. $\frac{1+2}{3+5} = \frac{3}{8}$

B. $\frac{1 \times 2}{3+5} = \frac{2}{8}$

C. $\frac{1 \times 2}{3 \times 5} = \frac{2}{15}$

D. $\frac{1+2}{3 \times 5} = \frac{3}{15}$

2) A river is 280 kilometers long. About how many meters is that?

 A. 2,800 m B. 28,000 m C. 280,000 m D. 2,800,000 m

3) How many $\frac{1}{6}$ -cup servings of nuts are in 2 cups?

Record your answer in the space provided.

4) Which decimal rounds to 14 when rounding to the nearest whole number?

 A. 13.4 B. 13.49 C. 14.4 D. 14.6

5) Which comparison is true?

 A. 35×100 has more zeros than $35 \times 1,000$. B. 35×100 has the same number of zeros as $35 \times 1,000$. C. 35×100 has fewer zeros than $35 \times 1,000$. D. Cannot be determined.

6) Complex problem: Write the decimal for $1 + \frac{3}{10} + \frac{6}{100}$, then identify all the digits and their place values.

 A. 1.36; 1 in ones, 3 in tenths, 6 in hundredths B. 1.306; 1 in ones, 3 in tenths, 0 in hundredths, 6 in thousandths C. 1.63; 1 in ones, 6 in tenths, 3 in hundredths D. 0.136; correct place values

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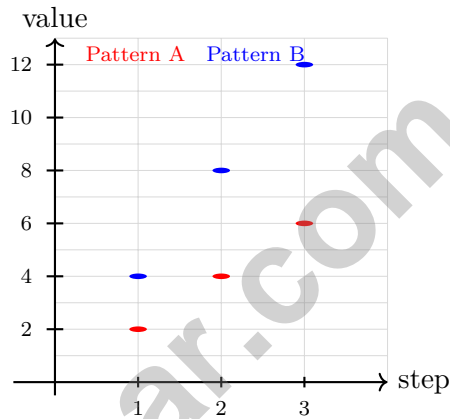
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- 1) Two patterns are shown on a coordinate grid. Pattern A is plotted at (1, 2), (2, 4), (3, 6). Pattern B is plotted at (1, 4), (2, 8), (3, 12). What rule describes the relationship?

Step	Pattern A	Pattern B
1	2	4
2	4	8
3	6	12



- A. Pattern B is 1 more than Pattern A C. Pattern B is twice Pattern A
 B. Pattern B increases by the step number D. Pattern B is 3 times the step number
- 2) Which expression represents “the sum of 15 and three times 4”?
- A. $15 + 3 \times 4$ C. $(15 + 3) \times 4$
 B. $3 \times (15 + 4)$ D. $15 \times 3 + 4$



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

- Choice C is correct. **(5.NF.A.2a)** $\frac{2}{9} + \frac{4}{9} = \frac{6}{9} = \frac{2}{3}$ of the wall is painted.
- Choice C is correct. **(5.NF.A.2a)** $\frac{5}{6} = \frac{5 \times 4}{6 \times 4} = \frac{20}{24}$ and $\frac{3}{8} = \frac{3 \times 3}{8 \times 3} = \frac{9}{24}$.
- Choice B is correct. **(5.NF.B.7c)** $\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$.
- Choice D is correct. **(5.NF.B.6)** Area = $\frac{2}{3} \times \frac{1}{2} = \frac{2}{6}$, which simplifies to $\frac{1}{3}$ m².
- Choice B is correct. **(5.NBT.A.2)** Check each quotient: $3,500 \div 10 = 350$, $450 \div 100 = 4.5$, $8,600 \div 1,000 = 8.6$, and $1,200 \div 100 = 12$.
- Choice C is correct. **(5.NBT.A.2)** Multiplying by a power of 10 shifts the value to a larger place. $10^2 = 100$, so $7 \times 100 = 700$. This confirms the answer.
- The correct answer is 7. **(5.G.A.1)** The first number in an ordered pair is the x-coordinate.
- Choice B is correct. **(5.MD.C.4)** $2 \times 3 \times 6 = 36$ unit cubes. The other products do not equal 36.
- Choice D is correct. **(5.G.B.3)** Triangle B has a small square in the corner indicating a right angle (marked at 90 degrees). It is a right triangle.
- The correct answer is 0.245. **(5.NBT.A.2)** Move the decimal point two places left: $24.5 \rightarrow 0.245$.
- Choice A is correct. **(5.NF.B.5c)** Repeated addition: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = 5 \times \frac{1}{8} = \frac{5}{8}$ of a lap.
- Choice A is correct. **(5.NF.B.5c)** There are 12 equal cells. The double-shaded overlap covers 4 cells, so the product is $\frac{4}{12} = \frac{1}{3}$.
- Choice A is correct. **(5.NF.A.1)** Convert to sixths: $4\frac{4}{6} + 2\frac{1}{6} = 6\frac{5}{6}$.
- The correct answer is 100 in³. **(5.MD.C.5a)** $10 \times 5 \times 2 = 100$ in³.
- The correct answer is 340. **(5.NBT.A.2)** Multiplying by 100 moves the decimal point two places to the right: $3.4 \rightarrow 340$.
- Choice C is correct. **(5.MD.C.3b)** Prism 1: $2 \times 3 \times 5 = 30$ cu. in. Prism 2: $1 \times 6 \times 5 = 30$ cu. in.
- Choice A is correct. **(5.NBT.B.7)** Multiply: $4 \times 6 = 24$, then count decimal places: 0.4 has 1 place, 0.6 has 1 place, so $1 + 1 = 2$ places. Result: 0.24.
- Choice C is correct. **(5.OA.B.3)** Pattern B increases by 3 each step: 2, 5, 8. At step 3, Pattern B is 8.
- Choice C is correct. **(5.G.B.4)** No sides have matching tick marks, so all sides are different lengths, making this a scalene triangle.
- Choices A, B are correct. **(5.NF.A.2b)** C is about $\frac{7}{10}$; D is $\frac{3}{4}$.
- Choice B is correct. **(5.NBT.B.7)** Add: $\$7.45 + \$2.68 = \$10.13$; then $\$10.13 + \$3.82 = \$13.95$.
- Choice C is correct. **(5.MD.B.2)** Count X marks above $\frac{3}{4}$. There are 3 X marks.
- Choice A is correct. **(5.NBT.B.6)** $288 \div 12 = 24$ pencils per classroom. Check: $12 \times 24 = 288$.
- Choice A is correct. **(5.NF.B.4c)** Area = $\frac{2}{3} \times \frac{3}{5} = \frac{6}{15}$ square meters.
- Choice A is correct. **(5.NF.B.5c)** $8 \times \frac{2}{3} = \frac{16}{3} = 5\frac{1}{3}$. The product is less than 8 because the scaling factor is less than 1.
- Choice D is correct. **(5.NBT.A.1)** In 1.482, the digit 2 is in the thousandths place, which is the smallest (rightmost) place value. (Ones > tenths > hundredths > thousandths.)
- Choice D is correct. **(5.NBT.B.5)** Round 23 to 20 and 18 to 20. Then $20 \times 20 = 400$.
- Choice A is correct. **(5.G.A.2)** The x-axis is time, so the x-coordinate 12 means 12 seconds. The y-axis is distance, so the y-coordinate 3 means 3 meters. The interpretation matches the axes.
- Choice D is correct. **(5.G.B.4)** Figure D is a rhombus with no right angles. It has two pairs of parallel sides, so it is a parallelogram, but it is not a rectangle.
- The correct answer is 12.85. **(5.MD.C.5)** Total spent: $8.65 + 3.50 = 12.15$. Remaining: $25.00 - 12.15 = 12.85$.
- Choice C is correct. **(5.MD.A.1)** Total dough: 5.5 kg = 5,500 grams. Muffins: $5,500 \div 110 = 50$ muffins.



Notes From Your Math Architect

Dear Builder of Big Ideas,

◇ Across 3 practice tests, you laid down brick after brick of math skill. The foundation is solid. The walls are strong. The roof is in place. You've built yourself a study sturdy enough to stand any storm test day might bring. ◇

★ **What architects know:** a great building starts with a great plan. You've practiced planning—reading carefully, picking your strategy, and working step by step. That blueprint thinking is what turns hard problems into clear answers. ★

Builder's Inspection Checklist

- **Foundation:** ROCK SOLID! Number sense, fractions, decimals—all in place.
- **Frame:** STRONG! You can break down a problem into clear parts.
- **Walls:** TIGHT! Your work is organized and easy to follow.
- **Roof:** FINISHED! You always answer the question that was asked.

Architect's tip: on test day, build each answer like a small building. Foundation: read the question. Frame: pick the strategy. Walls: do the math. Roof: check the answer. Each piece matters. Each piece is yours.

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 Architect (Built to Last)

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
- ✓ Achieve your best score!



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and practice materials!