

8 Louisiana LEAP GRADE 4



PRACTICE TESTS



Standards-Aligned Review with
Mixed Practice and Answer Key

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 Louisiana LEAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question Grade 4 practice rounds for LEAP, built around river parishes, music rhythms, and lively math patterns, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Louisiana Math Explorer!

Eight steady rounds on the Pelican State math route

This book gives you eight full Grade 4 practice tests for LEAP. Each round uses river parishes, music rhythms, and lively math patterns to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Louisiana Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Louisiana LEAP review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Pelican State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.

What Is Inside?

Eight tests, 240 questions, and a full LEAP review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 6–8	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

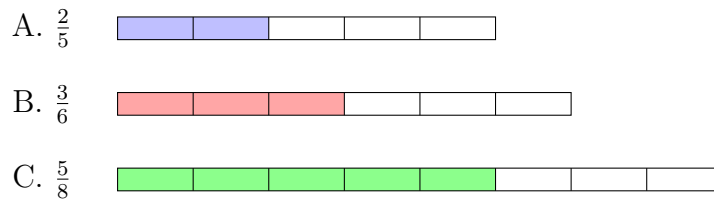


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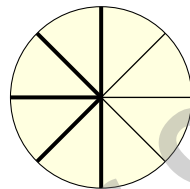
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1) Which fraction bar represents a fraction greater than $\frac{1}{2}$?



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

- C. $\frac{5}{8}$
 D. None are greater



Pie divided into eighths

2)

James eats $\frac{1}{8}$ of a pie each day. How much of the pie does he eat in 5 days?

- A. $\frac{1}{40}$ of the pie
 B. $\frac{5}{8}$ of the pie

- C. $\frac{5}{40}$ of the pie
 D. $\frac{6}{8}$ of the pie

3) If a figure has exactly 8 lines of symmetry, which of the following is it most likely?

- A. A square
 B. A regular pentagon

- C. A regular octagon
 D. A regular hexagon



4) Which decimal is between $\frac{2}{10}$ and $\frac{4}{10}$?

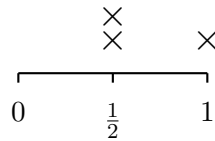
A. 0.1

C. 0.5

B. 0.3

D. 0.6

5) Look at the line plot of measurements in halves of an inch. How many X marks are above $\frac{1}{2}$ inch?



A. 1

C. 3

B. 2

D. 4

6) A book has $4\frac{2}{6}$ chapters in Part 1 and $2\frac{3}{6}$ chapters in Part 2. How many chapters total are in both parts?

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

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

B. $7\frac{1}{6}$

D. $2\frac{1}{6}$

7) What is the vertex of an angle?

A. One of the rays forming the angle

C. The space between the two rays

B. The point where the two rays meet

D. The endpoint of a line segment

8) Add: $\frac{4}{10} + \frac{15}{100}$.

A. $\frac{19}{100}$

C. $\frac{55}{100}$

B. $\frac{4}{15}$

D. $\frac{59}{100}$



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9) What is $1,428 \div 6$?

A. 238

C. 248

B. 242

D. 244

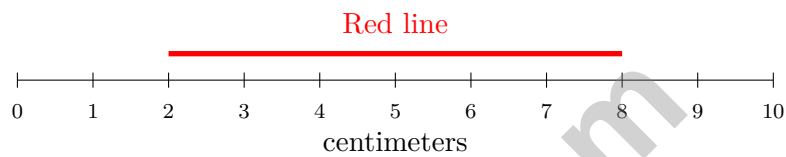
10) How many copies of $\frac{1}{3}$ are in $\frac{3}{3}$?

A. 1

C. 3

B. 2

D. 6



11)

Based on the ruler, what is the length of the red line in millimeters?

A. 60 mm

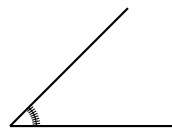
C. 100 mm

B. 80 mm

D. 120 mm

12) In the number 4,726, what is the value of the digit 7?

13)



This angle shows tick marks from 0 to 45. What is the measure?

A. 44°

C. 46°

B. 45°

D. 90°



1) Which area model correctly shows 31×17 ?

A.

30	1
10	7

B.

30	1
10	8

C.

30	7
1	10

D.

30	1
10	6

2) What is $\frac{6}{10} + \frac{20}{100}$?

A. $\frac{26}{100}$

B. $\frac{80}{100}$

C. $\frac{26}{110}$

D. $\frac{62}{100}$

3) Diego used $\frac{9}{10}$ of his water supply. He used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Which shows this decomposition?

A. $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$

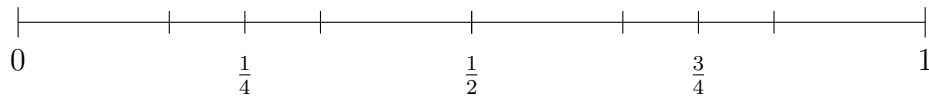
B. $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$

C. $\frac{7}{10} + \frac{1}{10} = \frac{8}{10}$

D. $\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$



4) Use the number line to find which inequality is correct.



A. $\frac{3}{4} < \frac{1}{4}$

B. $\frac{1}{4} > \frac{1}{2}$

C. $\frac{1}{2} < \frac{3}{4}$

D. $\frac{3}{4} < \frac{1}{2}$

5) Find $6\frac{5}{8} - 3\frac{7}{8}$.

6) In the number 52,864, what is the value of the digit in the tens place?

7) A rectangular poster is 12 inches long and 8 inches wide. How much paper does it cover (what is its area)?



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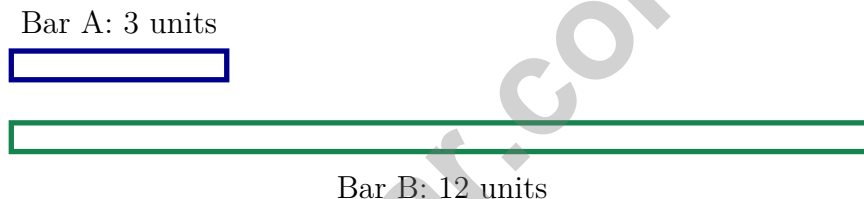
1) A fountain holds 20 gallons of water. How many quarts is this?

- A. 5
- B. 40
- C. 80
- D. 160

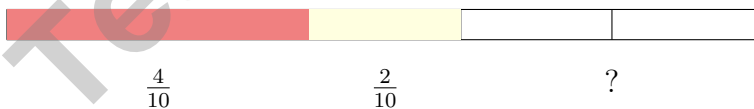
2) A rhombus is different from a square because a rhombus:

- A. Does not have four equal sides
- B. May not have four right angles
- C. Has more than four sides
- D. Has no parallel sides

3) Look at the bar models. What is the relationship?



- A. Bar A is 2 times Bar B
- B. Bar B is 3 times Bar A
- C. Bar A and Bar B are the same
- D. Bar B is 4 times Bar A

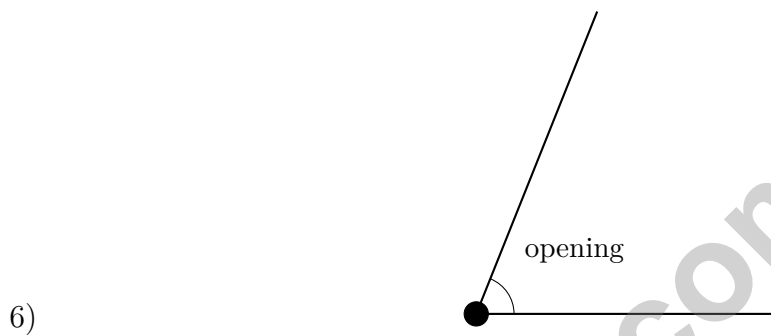


4)

A number line from 0 to 1 shows $\frac{4}{10}$ in red and $\frac{2}{10}$ in yellow. What fraction is unmarked?

- A. $\frac{4}{10}$
- B. $\frac{2}{10}$
- C. $\frac{6}{10}$
- D. $\frac{8}{10}$

- 5) Emma starts reading at 1:20 p.m. and finishes at 2:35 p.m. How many minutes did she read?



The diagram shows an angle with a small opening. Which type of angle is this?

- A. A right angle C. An obtuse angle
 B. An acute angle D. A straight angle



What is the measure of the angle shown?

- A. 35 degrees C. 45 degrees
 B. 40 degrees D. 50 degrees



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Practice Test Answer Keys

How to use this section with a Grade 4 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (4.NF.A.1) Look at the bars: $\frac{2}{5}$ is less than half (barely), $\frac{3}{6}$ is exactly half. Only $\frac{5}{8}$ clearly passes the halfway mark.
- 2) **Choice B is correct.** (4.NF.B.4b) James eats $\frac{1}{8}$ of the pie each day for 5 days. We multiply: $5 \times \frac{1}{8} = \frac{5}{8}$ of the pie.
- 3) **Choice C is correct.** (4.G.A.3) A regular octagon (8 equal sides) balances beautifully in eight ways. Four lines pass through opposite corners, and four pass through the middle of opposite sides. The answer is A regular octagon.
- 4) **Choice B is correct.** (4.NF.C.5) Convert the fractions to decimals: $\frac{2}{10} = 0.2$ and $\frac{4}{10} = 0.4$. The decimal 0.3 fits between them.
- 5) **Choice B is correct.** (4.MD.B.4) On the line plot, count the X marks stacked above $\frac{1}{2}$ inch. There are exactly **2 X** marks.
- 6) **Choice A is correct.** (4.NF.B.3) The book has two parts with fractional chapters. Add the mixed numbers: $4\frac{2}{6} + 2\frac{3}{6} = 6\frac{5}{6}$ chapters total.
- 7) **Choice B is correct.** (4.G.A.1) The vertex is simply the corner point where the two rays come together to form the angle — it's like the tip of a pencil or the corner of a piece of paper.
- 8) **Choice C is correct.** (4.NF.C.5) Convert $\frac{4}{10}$ to hundredths: $\frac{4}{10} = \frac{40}{100}$. Now we can add: $\frac{40}{100} + \frac{15}{100} = \frac{55}{100}$.
- 9) **Choice A is correct.** (4.NBT.B.6) Long division: $1 \div 6 = 0$ r1, bring down the 4 to get $14 \div 6 = 2$ r2, bring down the 2 to get $22 \div 6 = 3$ r4, bring down the 8 to get $48 \div 6 = 8$. The answer is **238**.
- 10) **Choice C is correct.** (4.NF.B.4b) One whole is $\frac{3}{3}$, which equals $3 \times \frac{1}{3}$. So there are **3** thirds in one whole.
- 11) **Choice A is correct.** (4.MD.A.1) The red line spans from 2 cm to 8 cm. The length is $8 - 2 = 6$ cm. Convert to millimeters: $6 \times 10 = 60$ mm. The answer is **60** mm.
- 12) **The correct answer is 700.** (4.NBT.A.1) In 4,726, the digit 7 is in the hundreds place. Its value is $7 \times 100 = \mathbf{700}$. ✓
- 13) **Choice B is correct.** (4.MD.C.5) The angle turns through 45 one-degree angles, measuring 45° .
- 14) **Choice B is correct.** (4.G.A.2) This triangle has one 90-degree angle and two acute angles (45 degrees each), making it a right triangle.
- 15) **Choice C is correct.** (4.NBT.A.2) Only C is true: $100,000 = 100,000$. The other statements don't work: A and B involve different number sizes, and D reverses the comparison ✓
- 16) **The correct answer is A, D.** (4.NF.B.3) A: $5 + 3 = 8$ twelfths ✓. D: $6 + 2 = 8$ twelfths ✓. B: $11 - 2 = 9$ (wrong). C: $4 + 4 = 8$ sixths, not twelfths (wrong). E: $9 - 4 = 5$ (wrong).
- 17) **Choice C is correct.** (4.NF.B.3) Light part is $\frac{3}{5}$, dark part is $\frac{2}{5}$. Together: $3 + 2 = 5$, so $\frac{3}{5} + \frac{2}{5} = \frac{5}{5} = 1$ whole ✓.
- 18) **Choice A is correct.** (4.NF.B.4b) Ava drinks $\frac{1}{4}$ cup 4 times, so we calculate $4 \times \frac{1}{4} = \frac{4 \times 1}{4} = \frac{4}{4} = 1$ cup. The answer is **1** cup.
- 19) **Choice D is correct.** (4.OA.B.4b) Walk through the factor pairs: 1×24 , 2×12 , 3×8 , 4×6 . Combine both sides of each pair: **1, 2, 3, 4, 6, 8, 12, 24**. *Tip:* the pairs “meet in the middle”—once they start repeating, you've found them all.
- 20) **Choice B is correct.** (4.MD.A.2) School starts at 9:00 a.m. Add 2 hours 15 minutes: $9:00 + 2:15 = 11:15$ a.m. Morning lessons end at **11:15** a.m.
- 21) **Choice C is correct.** (4.OA.A.3) Two steps! Step 1: find how many cookies are left after giving some away. $50 - 14 = 36$ cookies. Step 2: equal bags means divide: $36 \div 4 = 9$ cookies per bag.
- 22) **Choice A is correct.** (4.NF.C.5) Compare the tenths place: $9 > 6$, so $0.96 > 0.69$. Register A has more money.
- 23) **Choice C is correct.** (4.NF.B.3) Since $\frac{3}{10} < \frac{7}{10}$, regroup: $5\frac{3}{10} = 4\frac{13}{10}$. Subtract: $4\frac{13}{10} - 2\frac{7}{10} = \mathbf{2\frac{6}{10}}$.
- 24) **Choice C is correct.** (4.MD.C.6) The ray points to the 25° mark on the protractor. Since 25° is much less than 90° , this is a small acute angle. The answer is **25** degrees.
- 25) **Choice A is correct.** (4.NBT.B.4) Regroup across the zero in the tens place to subtract. The answer is **17,868**.
- 26) **The correct answer is $\frac{8}{10}$.** (4.NF.B.4b) Eight parts of $\frac{1}{10}$: $8 \times \frac{1}{10} = \frac{8}{10}$.
- 27) **Choice D is correct.** (4.OA.B.4b) Dots form odd-number rows: Figure 1 = 1, Figure 2 = $1 + 3 = 4$, Figure 3 = $1 + 3 + 5 = 9$. Figure 4 = $9 + 7 = \mathbf{16}$ dots.



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Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 8 tests is like 8 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement

★ CONFIDENCE IN MATH.
SUCCESS FOR LIFE.

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ Mathematical Reasoning
- ✓ And More!



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