

7 Louisiana LEAP

Grade 6 MATH PRACTICE TESTS



Use these two additional online practice tests for extra review after the printed tests in this book.

Standards-Aligned *Steady Southern*
Problem Solving for Comprehensive
Assessment Program



7 Full-Length
Printed Tests



Standards-Aligned
Math Practice



Detailed Answer Keys
and Explanations



Build Confidence.
Achieve Success.



PREPARE
PRACTICE
SUCCEED



PRACTICE
WITH PURPOSE



STRENGTHEN
MATH SKILLS



REVIEW, IMPROVE,
AND SUCCEED

7 Louisiana LEAP Grade 6 Math Practice Tests

Standards-Aligned Bayou-Strong Reasoning for Louisiana Educational Assessment Program



Seven complete 40-question Grade 6 practice rounds for LEAP, built for bayou-strong reasoning with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Welcome, Louisiana Math Explorer!

Eight focused rounds using bayou-strong reasoning

This book gives you seven full Grade 6 practice tests for LEAP. Each round uses river curves, neighborhood routes, and lively classroom focus as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Louisiana Practice Promise

Follow the clues like a waterway: read slowly, mark direction, and check where the answer lands.

Read

Plan

Check

How to Use This Book

A seven-session routine for bayou-strong reasoning

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Mark confidence.** Put a small star beside problems where your plan felt strong.
3. **Work in order.** Take one 40-question test at a time in a quiet place.
4. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.
5. **Correct actively.** Retry missed items before reading the full explanation.

Louisiana review rhythm: Work a round, review the tricky bends, and carry one new strategy into the next test.



What Is Inside?

Eight LEAP tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 7	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Bayou-strong reasoning means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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8) A baker makes cookies. For every batch, she uses 3 cups of flour. After making b batches, she has used f cups of flour. Which equation shows this relationship?

A. $b = 3f$

C. $b + f = 3$

B. $b = f + 3$

D. $f = 3b$

9) The temperature is 12°C and drops 2°C each hour for 6 hours. What is the final temperature number?

10) A gift box is 4 in long, $3\frac{1}{2}$ in wide, and 2 in tall. What is its volume?

A. 9.5 in^3

C. 24 in^3

B. 14 in^3

D. 28 in^3

11) A climate scientist collects temperature data from 100 cities. What is the population?

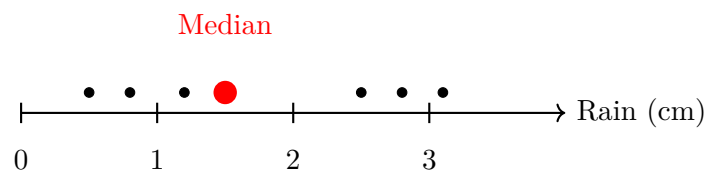
 A. The 100 cities sampled

 C. The temperature readings

 B. All cities on Earth

 D. The countries represented

12) A dot plot shows rainfall (cm) for 7 days: 0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1. Which represents the median?



A. 0.8

C. 2.5

B. 1.9

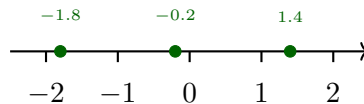
D. 1.5



1) A rectangle has a perimeter of 28 units. If the length is 9 units, what is the width?

- A. 4 units C. 6 units
 B. 5 units D. 7 units

2) Which number line correctly shows points at -1.8 , -0.2 , and 1.4 ?



- A. All three points are to the left of zero C. Two points are negative and one is positive
 B. All three points are to the right of zero D. The points are equally spaced
- 3) Which coordinate sign combination identifies Quadrant IV?
- A. $(+, +)$ C. $(-, -)$
 B. $(-, +)$ D. $(+, -)$
- 4) Tanya is solving: “If \$2 costs 8 apples, how much do 20 apples cost?” She calculates: $\$2 \times 20 \div 8 = \5 . Is her work correct?
- A. Yes, her answer is correct C. No, she divided by 8 instead of multiplying by the unit rate
 B. No, she forgot to simplify D. No, her setup was backwards



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5) A store item is marked \$64. The sales tax is 8%. What is the total cost including tax?

A. \$67.52

C. \$72.00

B. \$69.12

D. \$77.12

6) A student saves \$15 out of every \$100 earned. What percentage of earnings does the student save?

A. 6%

C. 25%

B. 15%

D. 85%

7) Paint coverage: One can of paint covers $\frac{2}{3}$ of a wall. How much of a can is needed to paint exactly $\frac{1}{2}$ of that wall?

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

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

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

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

8) A machine produces 420 items in 7 hours. At this rate, how many items will the machine produce in 12 hours?

9) A student incorrectly computed $4.2 \times 0.5 = 2.10$ instead of 2.1. Which statement is true?

A. The student made an error; trailing zeros should be removed.

C. The decimal point is in the wrong place.

B. Both answers are equivalent in value.

D. The student forgot to multiply.



1) Evaluate: $(7 - 4)^2 + 5$

A. 8

C. 21

B. 14

D. 53

2)



The diagram shows orange and green counters. What is the ratio of orange to green in fraction form?

A. $\frac{7}{3}$

C. $\frac{3}{7}$

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

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

3) Which pair of ratios are equivalent?

A. 2 : 3 and 4 : 6

C. 2 : 3 and 4 : 9

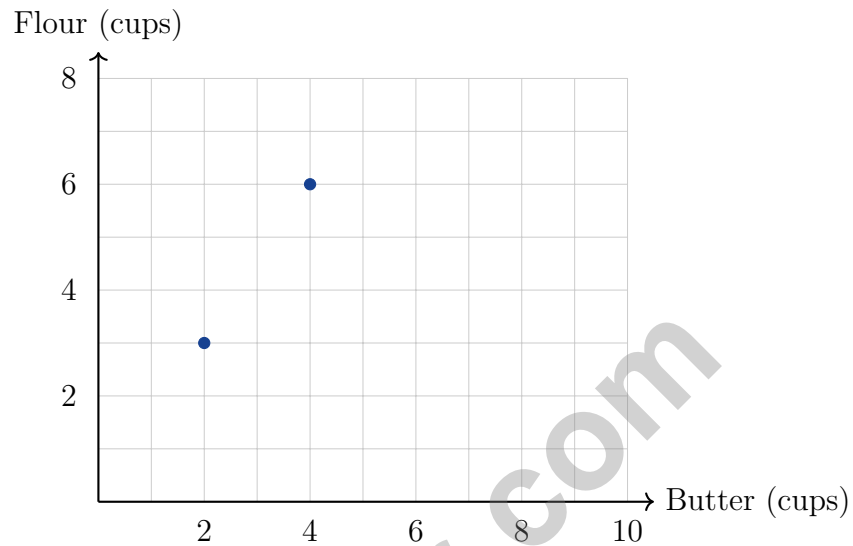
B. 2 : 3 and 3 : 6

D. 2 : 3 and 6 : 8



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- 4) A bakery makes cookies using a 2:3 ratio of butter to flour (in cups). The graph has butter on the x-axis and flour on the y-axis. If a recipe uses 8 cups of butter, what is the y-coordinate of this point?



- A. 10 C. 12
 B. 11 D. 13
- 5) A student receives a monthly allowance of \$360. She allocates: 40% to savings, 35% to entertainment, 15% to gifts, and the remainder to snacks. How much does she spend on snacks?

- A. \$18 C. \$54
 B. \$36 D. \$126



Louisiana LEAP Practice Test Answer Keys

How to use this Louisiana LEAP answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to bayou-strong reasoning
3. rework the problem before reading the full explanation, using this reminder:
Follow the clues like a waterway: read slowly, mark direction, and check where the answer lands.

A calm Louisiana correction routine turns every missed item into useful practice. Work a round, review the tricky bends, and carry one new strategy into the next test.



Louisiana Practice Test Answers and Explanations

Review the seven printed LEAP tests with flexible, steady, and ready for the next turn habits.

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(6.NS.C.7d)** $\$3.20 - \$2.80 = \$0.40$ per gallon.
- Choice C is correct.** **(6.SP.B.5)** Lake B's mean (20) > median (18) indicates high outliers pulling the mean up. These are unusually warm days. Lake A's mean = median suggests a more symmetric distribution.
- Choice C is correct.** **(6.NS.B.3)** Blue or yellow buttons = $7 + 8 = 15$. Probability = $\frac{15}{24}$.
- The correct answer is -1.5 .** **(6.NS.C.7d)** Compare the values on a number line. The farthest left value is -1.5 .
- Choice A is correct.** **(6.SP.B.4)** The smallest value in the plot is found by taking the smallest stem (14) with its smallest leaf (0), giving 140 cm.
- Choice B is correct.** **(6.NS.A.1)** 20% of 300 is $0.20 \times 300 = 60$ students.
- Choice D is correct.** **(6.RP.A.1)** The 9 made-shot parts represent 27 makes, so one part is $27 \div 9 = 3$. Misses are 1 part, so there are 3 misses.
- Choice D is correct.** **(6.EE.C.9)** Flour used equals 3 cups per batch times the number of batches: $f = 3b$.
- The correct answer is 0.** **(6.NS.B.3)** The total drop is $2 \times 6 = 12$, and $12 - 12 = 0$.
- Choice D is correct.** **(6.G.A.2)** $V = 4 \times 3.5 \times 2 = 14 \times 2 = 28 \text{ in}^3$.
- Choice B is correct.** **(6.SP.A.2)** The population is the entire set of cities from which the scientist wants to draw conclusions. The 100 cities represent a sample from the global population of cities.
- Choice D is correct.** **(6.SP.B.5c)** With 7 values, the median is the 4th value when ordered: 0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1. Median is 1.5.
- Choice B is correct.** **(6.RP.A.3)** An upward trend with scatter indicates a positive correlation (as one variable increases, the other tends to increase), but the scatter shows the relationship is not perfect—it's weak to moderate, not deterministic.
- Choice D is correct.** **(6.EE.A.2a)** "The difference of r and 5" is $(r - 5)$. "The product of 2 and" that difference is $2(r - 5)$.
- Choice B is correct.** **(6.EE.A.2b)** When a variable has no visible coefficient, it is understood to be 1 (i.e., $x = 1x$). The coefficient is never 0 unless the term is absent.
- Choice B is correct.** **(6.EE.A.2c)** Simplify: $5x - 2x + 3 = 3x + 3$. Substitute $x = 4$: $3(4) + 3 = 12 + 3 = 15$.
- Choice B is correct.** **(6.EE.B.8)** "No less than 15" is $p \geq 15$. "No more than 25" is $p \leq 25$. Together they describe the range.
- Choice C is correct.** **(6.G.A.1)** Triangle A: $A = \frac{1}{2} \times 20 \times 3 = 30 \text{ in}^2$. Triangle B: $A = \frac{1}{2} \times 10 \times 6 = 30 \text{ in}^2$.
- Choice D is correct.** **(6.SP.B.5c)** The median is 135. Excluding the median, the lower half is 120, 128, 130, so $Q1 = 128$. The upper half is 140, 142, 151, so $Q3 = 142$. The IQR is $142 - 128 = 14$.
- The correct answer is y -coordinate changes sign, x -coordinate stays the same.** **(6.NS.C.8)** When reflecting across the x -axis, the y -coordinate changes to $-y$ (B is correct) and the x -coordinate remains x (D is correct). This means the reflected point is $(x, -y)$. Statement A is false—only the y -coordinate changes sign. Statement C is false because the reflection is vertical. Statement E describes the result but is not separately identifying a true property about the transformation.
- Choice B is correct.** **(6.SP.B.4)** The value 6 has the most dots (5), making it the mode. The other statements are false: only 2 have 4 pencils, and there are 2 with 7 pencils.
- Choice A is correct.** **(6.RP.A.3)** Team A is listed first, so compare Team A to Team B as 35 : 42. Divide both scores by 7 to get 5 : 6.
- Choice C is correct.** **(6.RP.A.3a)** The unit rate is $\frac{\$160}{4 \text{ sessions}} = \40 per session. Verify: $\frac{\$240}{6} = \40 per session ✓.
- Choice D is correct.** **(6.RP.A.3)** Ratio 7 : 4 with width 20 cm: each part is $20 \div 4 = 5$ cm. Length is $7 \times 5 = 35$ cm.
- Choice C is correct.** **(6.EE.C.9)** Person A: 20% of $\$800 = 0.20 \times 800 = \160 . Person B: 40% of $\$400 = 0.40 \times 400 = \160 . Both save $\$160$.



Scan me!
For more practice
& answers

Hi, Brave Trail-Walker!

◇ You walked all 7 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

MASTER TODAY. SUCCEED TOMORROW.

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 7 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

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



PERFECT FOR:

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

★ PRACTICE TODAY.
SUCCEED TOMORROW.

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.



Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



7 FULL-LENGTH
PRINTED TESTS



STANDARDS-
ALIGNED PRACTICE



DETAILED ANSWER
KEYS & EXPLANATIONS