

GRADE

6

MATH

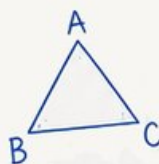
6

Louisiana LEAP

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$2x + 3 = 11$



$7^2 = 49$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



6 PRINTED TESTS + 2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills



SUCCEED

Build confidence and achieve your best

6 Louisiana LEAP Grade 6 Math Practice Tests

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



Six 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 six 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 six-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	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

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	29
★ Practice Test 3	_____	44
★ Practice Test 4	_____	60
★ Practice Test 5	_____	74
★ Practice Test 6	_____	90
Practice Test Answer Keys	_____	109
Practice Test Answers and Explanations	_____	113



Yellow Blue

1)

The bar shows yellow and blue sections in a ratio of 3 : 1. If the blue section is 8 units, what is the length of the yellow section?

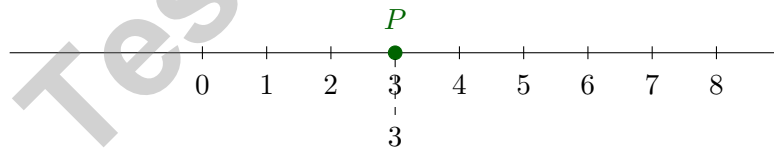
- A. 3 units C. 24 units
 B. 8 units D. 11 units

2) A school is making care packages. They have 54 pencils and 72 erasers to distribute equally among students with no items left over. What is the greatest number of students who can receive a package?

- A. 6 C. 18
 B. 9 D. 27

3) What are the coordinates of a point on the positive x -axis?

- A. (0, 5) C. (-3, 0)
 B. (0, -2) D. (4, 0)



4)

Which number is less than P ?

- A. 5 C. 2
 B. 4 D. 6



5) An error was made: a student calculated $(-5) \times (-6)$ and got -30 . What is the correct answer?

- A. -30 (student is correct) C. 11 (student added instead)
 B. 30 (student forgot sign rule) D. 1 (student subtracted instead)

6) Marcus has a bank account with a balance of -35 dollars (overdrawn). He deposits \$50. What is his new balance?

- A. -85 dollars C. 15 dollars
 B. -15 dollars D. 85 dollars

$$(3 \times 2)^2$$

Parentheses: $3 \times 2 = 6$

Exponent: $6^2 = 36$

7)

What is the correct value of $(3 \times 2)^2$?

- A. 12 C. 36
 B. 18 D. 72

8) After simplifying $4x + 7 + 2x - 3$, what is the coefficient of x ?



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9) Evaluate $2n - 7$ when $n = 15$.

10) Write an expression for “the product of 6 and the difference of h and 2”.

A. $6h - 2$

C. $(6 - h) \cdot 2$

B. $6 - h - 2$

D. $6(h - 2)$

11) In the expression $a + 2a + 3a$, how many terms are shown before combining like terms?

A. 1

C. 3

B. 2

D. 6

12) Find the value of $10 - \frac{x}{2}$ when $x = 6$.

A. 5

C. 8

B. 7

D. 13

13) Children under 12 can eat from the kids' menu. Which inequality represents this, where a is age in years?

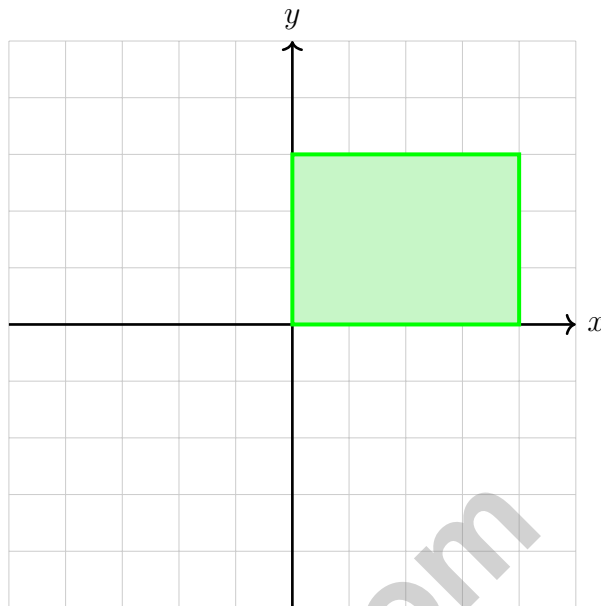
A. $a \geq 12$

C. $a < 12$

B. $a > 12$

D. $a \leq 12$

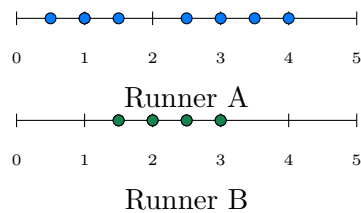




4)

A rectangle has vertices at $(0, 0)$, $(4, 0)$, $(4, 3)$, and $(0, 3)$. If the rectangle is translated 2 units to the left and 1 unit up, what are the new coordinates of the vertex that was originally at $(4, 0)$?

5) Two runners' sprint times (seconds) over 8 races. Which runner has more consistent sprint times?



- A. Runner A
- B. Runner B

- C. Both are equally consistent
- D. Cannot determine from dot plots



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- 1) Which two statements both describe the same ratio?
- Statement X: The ratio is 5 : 15.
 - Statement Y: For every 1 apple there are 3 oranges.
- A. Only Statement X is correct. D. The statements describe different ratios.
- B. Only Statement Y is correct.
- C. Both statements describe the same ratio.
- 2) A student graphed the ratio of cats to dogs as (cats, dogs). For the point (2, 5), the correct constant of proportionality is $\frac{5}{2} = 2.5$. The student wrote $\frac{2}{5} = 0.4$ instead. What did this error represent?
- A. The student divided the x-value by the y-value instead of the y-value by the x-value
 - B. The student forgot to simplify the fraction
 - C. The student found $\frac{5}{2}$ instead of $\frac{2}{5}$
 - D. The student changed the point to (5, 2)
- 3) A cyclist travels at a rate of 15 miles per hour. How long will it take to travel 60 miles?
- A. 2 hours
 - B. 3 hours
 - C. 4 hours
 - D. 5 hours



- 4) A teen earns \$300 per month. If their total expenses are \$180, what is the surplus (amount left over) as a percent of income?
- A. 40% C. 20%
- B. 60% D. 36%
- 5) The absolute value of a negative number is:
- A. Always negative D. Sometimes negative and sometimes positive
- B. Always positive
- C. Always zero
- 6) A team scores s points in the first half and 18 points in the second half. Which expression shows the total points scored?
- A. $s - 18$ C. $s + 18$
- B. $18 - s$ D. $18s$



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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.



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Louisiana Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.RP.A.1)** Blue is the 1-part amount, and it is 8 units. Yellow is 3 parts, so the yellow length is $3 \times 8 = 24$ units.
- 2) **Choice C is correct.** **(6.NS.B.4)** Find GCF(54, 72). Factors of 54: 1, 2, 3, 6, 9, 18, 27, 54. Factors of 72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72. GCF is 18. Each student gets 3 pencils and 4 erasers.
- 3) **Choice D is correct.** **(6.NS.C.8)** Points on the x -axis have a y -coordinate of 0. For a point to be on the positive x -axis, the x -coordinate must be positive. The point (4, 0) satisfies both conditions.
- 4) **Choice C is correct.** **(6.NS.C.7d)** $P = 3$. Since $2 < 3$, the number 2 is less than P .
- 5) **Choice B is correct.** **(6.NS.B.3)** Negative times negative is positive, so $(-5) \times (-6) = 30$. The student incorrectly applied the sign rule.
- 6) **Choice C is correct.** **(6.EE.A.3)** Adding a deposit to an overdrawn balance: $-35 + 50 = 15$ dollars.
- 7) **Choice C is correct.** **(6.EE.A.1)** Order of operations starts inside the parentheses: $3 \times 2 = 6$. Then apply the exponent to that single number: $6^2 = 36$. (Note: writing it as $3^2 \times 2^2$ first happens to give the same answer for multiplication inside parentheses, but the diagram models the correct PEMDAS path: simplify the parentheses to one number, then square.)
- 8) **The correct answer is 6.** **(6.EE.A.3)** Combine like terms: $4x + 2x = 6x$.
- 9) **The correct answer is 23.** **(6.EE.B.6)** Substitute $n = 15$: $2(15) - 7 = 30 - 7 = 23$.
- 10) **Choice D is correct.** **(6.EE.A.2a)** "The difference of h and 2" is $(h - 2)$. "The product of 6 and" that difference is $6(h - 2)$.
- 11) **Choice C is correct.** **(6.EE.A.2b)** Before combining, we count three separate terms: a , $2a$, and $3a$. After combining, they equal $6a$.
- 12) **Choice B is correct.** **(6.EE.A.2c)** Substitute $x = 6$: $10 - \frac{6}{2} = 10 - 3 = 7$.
- 13) **Choice C is correct.** **(6.EE.B.8)** "Under 12" means less than: $a < 12$.
- 14) **Choice C is correct.** **(6.EE.B.8)** "No more than" means "less than or equal to," so the inequality is $x \leq 12$.
- 15) **Choice C is correct.** **(6.EE.C.9)** If 8 gallons cover 160 miles, then 320 miles (twice as far) requires $2 \times 8 = 16$ gallons.
- 16) **Choice B is correct.** **(6.G.A.1)** $A = \frac{1}{2} \times 8 \times 6 = 24 \text{ in}^2$.
- 17) **Choice A is correct.** **(6.G.A.3)** Diagonal corners of a rectangle are (3, 2) with (8, 6), and (8, 2) with (3, 6). The diagonally opposite vertex to (8, 2) is (3, 6).
- 18) **Choice C is correct.** **(6.G.A.1)** Width: $9 - 2 = 7$ units. Height: $8 - 3 = 5$ units. Area = $7 \times 5 = 35$ square units.
- 19) **Choice B is correct.** **(6.G.A.4)** A rectangular prism with dimensions $2 \times 3 \times 4$ has 6 faces: two opposite faces of size 2×3 , two of size 2×4 , and two of size 3×4 . Choice B lists exactly this composition.
- 20) **Choice A is correct.** **(6.NS.C.8)** Reflecting over the x -axis negates the y -coordinate. If the image is (4, -3), the original is (4, 3).
- 21) **The correct answer is Coprime numbers have GCF of 1; if one number is a factor of the other, the GCF is the smaller.** **(6.NS.B.4)** Statement A: Coprime (or relatively prime) numbers share only 1 as a common factor (TRUE). Statement B: LCM of 8 and 12 is 24, not 96 (FALSE). Statement C: If 3 divides 12, then $\text{GCF}(3, 12) = 3$ (TRUE). Statement D: GCF is never larger than LCM (FALSE). Statement E: $100 = 4 \times 25 = 2^2 \times 5^2$, not 2×5^2 (FALSE).
- 22) **Choice C is correct.** **(6.RP.A.1)** The student calculated $\pi r \approx 3.14 \times 4 = 12.56$ (which is the circumference formula). The correct area is $\pi r^2 \approx 3.14 \times 16 = 50.24 \text{ m}^2$.
- 23) **Choice D is correct.** **(6.SP.A.2)** Max = 95, Min = 68. Range = $95 - 68 = 27$.
- 24) **Choice C is correct.** **(6.SP.B.5c)** Maximum = 85, minimum = 75. Range = $85 - 75 = 10$.



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Captain's Log

Ahoy, Math Sailor!

◇ You sailed through 6 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 6 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

PRACTICE 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 6 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.

6
PRINTED
TESTS

+

2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS