

4 Louisiana LEAP

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

**PRINTED
TESTS**



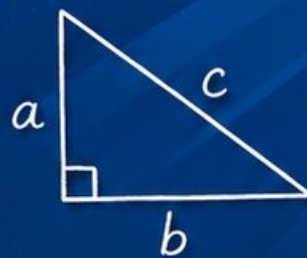
2

**ONLINE
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.**

4 Louisiana LEAP Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using bayou-strong reasoning

This book gives you four 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 four-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?

Four LEAP tests, 160 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 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
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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1) A student calculated the volume of a rectangular prism with dimensions 5 m, 4 m, and 3 m. They wrote $5 + 4 + 3 = 12 \text{ m}^3$. What is the correct volume?

- A. 12 m^3 C. 30 m^3
 B. 20 m^3 D. 60 m^3

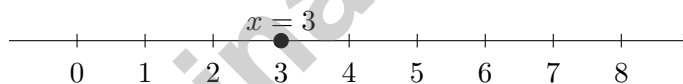
2) Three numbers are plotted on a number line: $-\frac{3}{2}$, -1 , and $-\frac{1}{2}$. Which order is correct?

- A. $-1 < -\frac{1}{2} < -\frac{3}{2}$ C. $-\frac{1}{2} < -1 < -\frac{3}{2}$
 B. $-\frac{1}{2} < -\frac{3}{2} < -1$ D. $-\frac{3}{2} < -1 < -\frac{1}{2}$

3) Which ordered pair is located in Quadrant III?

- A. $(2, 5)$ C. $(-4, -2)$
 B. $(-1, 3)$ D. $(3, -6)$

4)



Which number is less than x ?

- A. 4 C. 1
 B. 5 D. 6
- 5) The distance between $(x, 7)$ and $(8, 7)$ is 5 units. Both points have the same y -coordinate. What is x ?

- A. $x = 3$ or $x = 13$ C. $x = 4$ or $x = 12$
 B. $x = 2$ or $x = 14$ D. $x = 1$ or $x = 15$



6) A savings account earns \$15 per month. After 8 months, how much more money is in the account?

A. \$7

C. \$120

B. \$23

D. -\$120

7) A student measured a trapezoid with bases of 14 m and 10 m and a height of 7 m. What is the area?

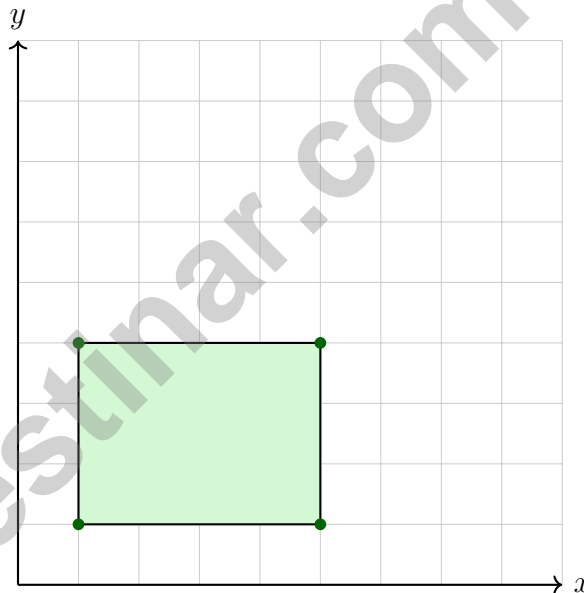
A. 84 m^2

C. 70 m^2

B. 98 m^2

D. 140 m^2

8)



What is the perimeter of the rectangle shown above?

A. 9 units

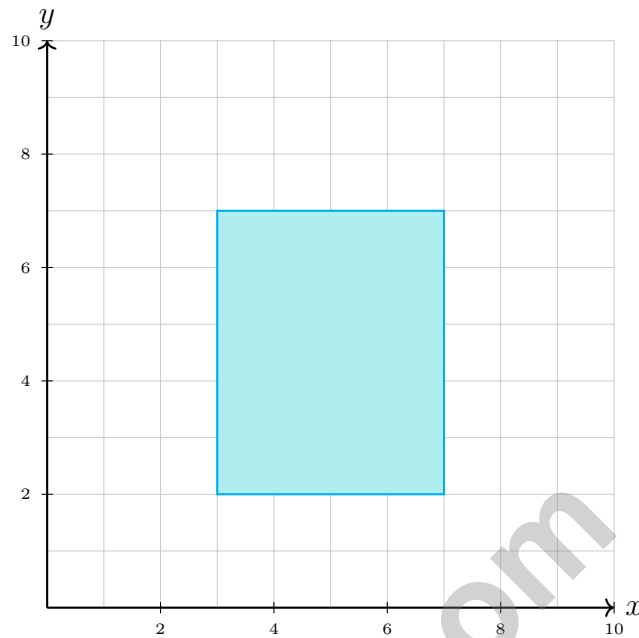
C. 14 units

B. 12 units

D. 16 units



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9)

A rectangle has vertices at $(3, 2)$, $(7, 2)$, $(7, 7)$, and $(3, 7)$. What is its area?

- A. 16 square units C. 20 square units
 B. 18 square units D. 22 square units

10) A rectangular prism has dimensions 12 cm, 8 cm, and 4 cm. What is its lateral surface area (the 4 vertical faces, not including top and bottom)?

- A. 96 cm^2 C. 160 cm^2
 B. 128 cm^2 D. 192 cm^2

11) Order these decimals from greatest to least: 0.38, 0.8, 0.308, 0.83

- A. 0.83, 0.8, 0.38, 0.308 C. 0.308, 0.38, 0.8, 0.83
 B. 0.8, 0.83, 0.308, 0.38 D. 0.308, 0.38, 0.83, 0.8



- 1) Which statement correctly compares the two integers -6 and -3 ?
- A. $-6 > -3$ C. $-6 < -3$
 B. $-6 = -3$ D. -6 and -3 are opposites
- 2) A box plot has the following values: $\text{min} = 10$, $Q_1 = 20$, $\text{median} = 26$, $Q_3 = 32$, $\text{max} = 45$. Which is the IQR?
- A. 6 C. 22
 B. 12 D. 35
- 3) Store daily sales (in dollars): $\text{mean} = \$500$, $\text{median} = \$480$. Which day was likely a special event?
- A. A day with very low sales below the median C. A day with very high sales above the median
 B. A day with sales exactly at the mean D. Cannot be determined
- 4) A box contains 40 pens: 15 blue, 12 red, 8 green, and 5 black. If one pen is drawn at random, what is the probability it is red?
- A. $\frac{1}{4}$ C. $\frac{1}{3}$
 B. $\frac{3}{10}$ D. $\frac{2}{5}$
- 5) Which data set would be best displayed in a stem-and-leaf plot?
- A. Names of students C. Test scores ranging from 50 to 100
 B. Favorite colors D. Types of fruits



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& answers

6) A chemistry lab recorded 520 observations. The circle graph shows $\frac{5}{26}$ were anomalies. How many observations were anomalies?

- A. 80 C. 100
 B. 90 D. 110

7) Which data display is BEST for showing how a single numerical variable is distributed across many values?

- A. Bar graph C. Pictograph
 B. Histogram D. Circle graph

8) A book storage unit is 2 ft by 1 ft by 3 ft. A larger unit is 3 ft by 2 ft by 2 ft. How many times larger is the second unit's volume?

- A. 1 time C. 3 times
 B. 2 times D. 4 times

9)



The dots show lavender and cyan counters. Write the ratio of lavender to total in simplest form.

- A. 5 : 2 C. 2 : 5
 B. 7 : 5 D. 5 : 7

10) Three students measured the ratio of pennies to dimes in their wallets:

- Student A: 4 pennies and 6 dimes
- Student B: 10 pennies and 15 dimes
- Student C: 8 pennies and 10 dimes

Which students have the same penny-to-dime ratio?

- A. Students A and B only C. Students B and C only
 B. Students A and C only D. All three students



1) Two friends have different budgets. Friend X spends \$500 on housing and it represents 50% of her income. Friend Y spends \$600 on housing and it represents 40% of his income. Who has a higher income?

- A. Friend X has higher income. C. They have the same income.
 B. Cannot be determined from the given information. D. Friend Y has higher income.

2) Simplify: $\frac{6}{7} \div \frac{9}{14}$

- A. $\frac{54}{98}$ C. $1\frac{1}{3}$
 B. $\frac{3}{4}$ D. $\frac{2}{3}$

Partial Quotients: $5,472 \div 24$

$$24 \times 200 = 4,800 \Rightarrow 5,472 - 4,800 = 672$$

$$24 \times 20 = 480 \Rightarrow 672 - 480 = 192$$

$$24 \times 8 = 192 \Rightarrow 192 - 192 = 0$$

Quotient: $200 + 20 + 8 = \mathbf{228}$

3)

What is $5,472 \div 24$ using partial quotients?

- A. 226 C. 230
 B. 232 D. 228



4) Find the GCF of 28 and 42.

A. 2

B. 7

C. 14

D. 28

5) What is the GCF of 10 and 15?

A. 2

B. 3

C. 5

D. 10

6) What are the coordinates of the origin?

A. (1, 1)

B. (0, 0)

C. (-1, -1)

D. (0, 1)

7)

Location	Elevation (m)
Valley	-50
Beach	0
Mountain	800
Canyon	-120

Which location is lowest?

A. Valley

B. Beach

C. Mountain

D. Canyon



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& answers

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.



Scan me!
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& answers

Louisiana Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice D is correct.** **(6.G.A.2)** The correct formula is $V = L \times W \times H$, not addition. $V = 5 \times 4 \times 3 = 60 \text{ m}^3$.
- Choice D is correct.** **(6.NS.C.6c)** In decimal form: $-1.5 < -1 < -0.5$. The more negative the number, the smaller it is.
- Choice C is correct.** **(6.NS.C.8)** Quadrant III contains points where both coordinates are negative. The point $(-4, -2)$ has negative x and negative y , so it is in Quadrant III.
- Choice C is correct.** **(6.NS.C.7d)** $x = 3$. Since $1 < 3$, the number 1 is less than x .
- Choice A is correct.** **(6.NS.C.8)** Since $|x - 8| = 5$, then $x = 8 - 5 = 3$ or $x = 8 + 5 = 13$.
- Choice C is correct.** **(6.NS.B.3)** Earning \$15 per month for 8 months: $15 \times 8 = 120$. The account gains \$120.
- Choice A is correct.** **(6.G.A.1)** Area = $\frac{1}{2}(14 + 10) \times 7 = \frac{1}{2}(24)(7) = 84 \text{ m}^2$.
- Choice C is correct.** **(6.G.A.3)** Width = $5 - 1 = 4$ units; height = $4 - 1 = 3$ units. Perimeter = $2(4 + 3) = 14$ units.
- Choice C is correct.** **(6.G.A.1)** Width: $7 - 3 = 4$ units. Height: $7 - 2 = 5$ units. Area = $4 \times 5 = 20$ square units.
- Choice C is correct.** **(6.G.A.4)** Lateral $SA = 2(12)(4) + 2(8)(4) = 96 + 64 = 160 \text{ cm}^2$.
- Choice A is correct.** **(6.NS.B.3)** Compare: $0.83 = 0.830 > 0.800 > 0.380 > 0.308$. Order from greatest to least: 0.83, 0.8, 0.38, 0.308.
- Choice A is correct.** **(6.NS.C.7c)** The opposite of a negative number is its positive version. The opposite of -15 is 15.
- Choice A is correct.** **(6.NS.B.3)** $-5 - (-4) = -5 + 4 = -1$. Subtracting a negative means adding its opposite. Start at -5 , move right 4 units to -1 .
- Choice A is correct.** **(6.EE.B.6)** Total cost = price per notebook \times number of notebooks = $3n$.
- Choice B is correct.** **(6.SP.A.2)** This has a single fixed answer: 2. The other questions all involve variability and require collecting data from multiple sources or people.
- Choice A is correct.** **(6.NS.C.7d)** The equation $y = 7x$ represents a proportional relationship with constant of proportionality $k = 7$. The graph passes through the origin.
- The correct answer is 120.** **(6.RP.A.3c)** 25% of $480 = 0.25 \times 480 = 120$ products were sold online.
- Choice D is correct.** **(6.EE.C.9)** Food and utilities: $25\% + 20\% = 45\%$ of $\$2000 = 0.45 \times 2000 = \900 .
- Choice A is correct.** **(6.RP.A.3)** Rectangle 1: $4 \times 5 = 20$ m and $2 \times 5 = 10$ m, so area = 200 sq m. Rectangle 2: $5 \times 4 = 20$ m and $2 \times 4 = 8$ m, so area = 160 sq m. Rectangle 1 is larger.
- Choice C is correct.** **(6.NS.A.1)** $4\frac{1}{2} = \frac{9}{2}$, so $\frac{9}{2} \div \frac{3}{8} = \frac{9}{2} \times \frac{8}{3} = \frac{72}{6} = 12$.
- The correct answer is $\frac{2}{5} = 40\%$ and $0.6 = 60\%$.** **(6.RP.A.3c)** A is correct: $\frac{2}{5} = \frac{40}{100} = 40\%$. B is correct: $0.6 \times 100 = 60\%$. C is wrong because $\frac{7}{10} = 70\%$, D is wrong because $0.08 = 8\%$, and E is wrong because $\frac{1}{8} = 12.5\%$.
- Choice A is correct.** **(6.NS.B.2)** $9,504 \div 32 = 297$ exactly. Verify: $32 \times 297 = 9,504$.
- Choice A is correct.** **(6.NS.B.4)** Multiples of 9: 9, 18, 27, 36, 45, ... Multiples of 12: 12, 24, 36, 48, ... The least common multiple is 36.
- Choice A is correct.** **(6.NS.B.4)** The rectangle shows a common factor of 5 with widths 4 and 6. Factor first: $5(4 + 6)$ totals 50. Choice B flips roles (height 5 splits differently), while D skips the inner sum.
- Choice A is correct.** **(6.NS.C.5)** On a number line, -8 is to the left of -4 , so $-8 < -4$. The student confused absolute value magnitudes with signed comparisons. The correct inequality is $-4 > -8$.
- Choice C is correct.** **(6.EE.A.3)** Rising from below normal: $-2 + 5 = 3$ feet (above normal).
- The correct answer is 600.** **(6.RP.A.3)** Step 1: Find the unit rate: $240 \div 8 = 30$ widgets per hour. Step 2: In 20 hours: $30 \times 20 = 600$ widgets.



Notes From Your Math Builder

Hi, Math Builder!

◇ Through 4 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

Jay Daie

Your Math Builder

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

4 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

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

WHAT YOU'LL 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 with clear explanations and meaningful practice.



Test Confidence

Familiarize 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

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FOR MORE PRACTICE TESTS
AND LEARNING RESOURCES



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