

# 9

# Louisiana LEAP

GRADE

# 6

MATH

## PRACTICE TESTS

Standards-Aligned Review  
Mixed Practice & Answer Key



### 9 PRINTED TESTS

Realistic practice to build confidence and mastery



### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



### BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



**9 PRINTED TESTS**  
**+2 ONLINE TESTS**

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

**PRACTICE TODAY.  
SUCCEED TOMORROW.**



PRACTICE



REVIEW



SUCCEED

# 9 Louisiana LEAP Grade 6 Math Practice Tests

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



Nine 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.

**Jay Daie and Reza Nazari**



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# Welcome, Louisiana Math Explorer!

Nine focused rounds using bayou-strong reasoning

This book gives you nine 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 nine-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?

Nine LEAP tests, 360 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.
Tests 7–9	Final stamina rounds 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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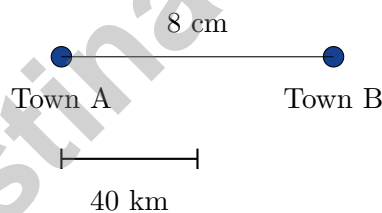
1) A student is trying to identify which face is missing from an incomplete cube net. The net shows 5 faces: a center square, with four squares attached to the four sides. Which position should the 6th face be attached to form a valid cube net?

- A. One of the four outer sides of the outer squares
- B. Any position that adds 1 face
- C. Directly above one of the outer squares
- D. It cannot form a valid cube net with only one more face

2) A book is marked down 30% from its original price of \$18. What is the sale price?

- A. \$5.40
- B. \$8.40
- C. \$12.60
- D. \$13.60

3) A map shows two towns with a distance between them. The scale bar below indicates the distance.



What is the actual distance between the towns?

- A. 80 km
- B. 120 km
- C. 160 km
- D. 200 km



4) Factor  $16 + 32$  using the GCF.

A.  $2(8 + 16)$

B.  $4(4 + 8)$

C.  $8(2 + 4)$

D.  $16(1 + 2)$

5) A reflection across both axes is equivalent to a rotation around the origin. If you reflect  $(a, b)$  across the  $x$ -axis and then across the  $y$ -axis, the result is:

A.  $(-a, b)$

B.  $(a, -b)$

C.  $(-a, -b)$

D.  $(b, a)$

6) The ratio of red marbles to blue marbles in a bag is  $5 : 3$ . If there are 15 red marbles, how many blue marbles are there?

7) A pizza is cut into 8 slices. One slice costs \$2.50. What is the total cost of the pizza?

A. \$18.00

B. \$20.00

C. \$16.00

D. \$22.00

8) Which list contains all factors of 20?

A. 1, 2, 4, 5, 10, 20

B. 1, 2, 3, 4, 5, 20

C. 2, 4, 5, 10

D. 1, 2, 4, 5, 8, 20



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9) A stock price changes each day. On Monday the change is +6 points. On Tuesday the change is -3 points. On Wednesday the change is -2 points. What is the total change for the three days?

- A. +1 point                       C. -5 points  
 B. +11 points                       D. 11 points

10) What is  $|-8|$ ?

- A. -8                                   C. 0  
 B. 8                                     D. 16

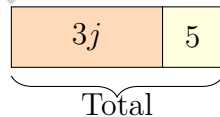
11) On a number line, which number is between  $-\frac{1}{2}$  and  $\frac{1}{2}$ ?

- A. -1                                   C. 0  
 B. -0.6                                   D. 1

12) Two integers are opposite and sum to 0. If one integer is -6, what is the other?

- A. 0                                       C. 6  
 B. -6                                       D. 1

13)

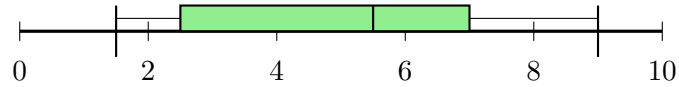


The bar model shows  $3j$  and 5. If the total is 20, what is the value of  $j$ ?

- A. 5                                       C. 15  
 B. 8.33                                       D. 25



1) Which value represents  $Q_1$  in the box plot shown?



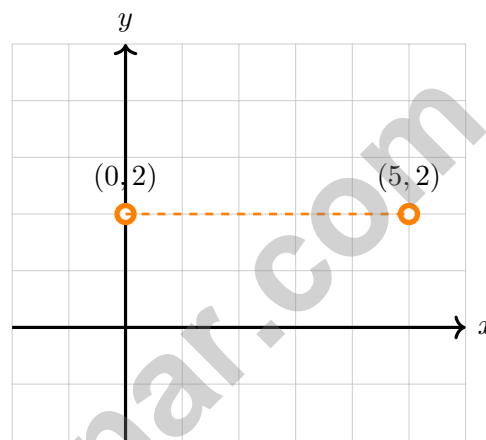
A. 1.5

C. 5.5

B. 2.5

D. 9

2)



What is the distance from  $(0, 2)$  to  $(5, 2)$ ?

A. 3 units

C. 5 units

B. 4 units

D. 6 units

3) A trapezoid with bases of 11 m and 7 m has a height of 5 m. What is the area?

A.  $23 \text{ m}^2$

C.  $90 \text{ m}^2$

B.  $35 \text{ m}^2$

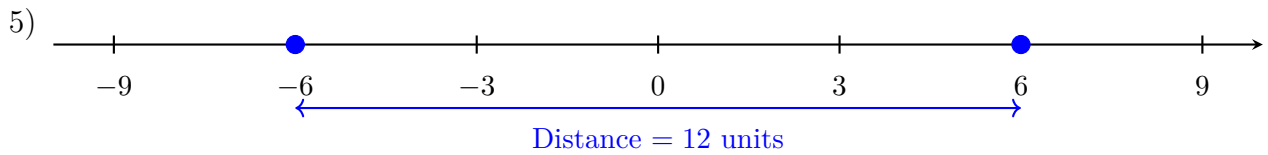
D.  $45 \text{ m}^2$



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4) A deep-sea creature lives at an elevation of  $-5000$  meters. A high-altitude bird lives at an elevation of  $8000$  meters. What is the vertical distance between them?

- A. 3000 meters                       C. 5000 meters  
 B. 13000 meters                       D. 8000 meters

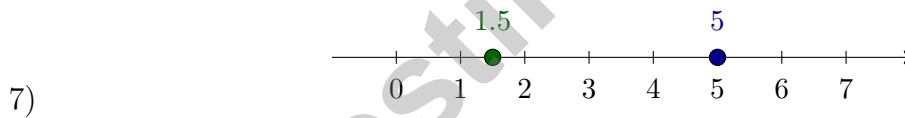


On a number line, the distance between  $-6$  and  $6$  is:

- A. 0                                       C. 12  
 B. 6                                       D.  $-12$

6) Which fraction is located between  $0$  and  $1$  on a number line?

- A.  $-\frac{2}{5}$                                        C.  $\frac{5}{4}$   
 B.  $\frac{3}{10}$                                        D.  $\frac{7}{6}$



Which number is between  $1.5$  and  $5$ ?

- A. 3                                       C. 6  
 B. 0.5                                       D. 1

1) Which two expressions are equivalent?

A.  $8(5 + 3)$  and  $40 + 24$

C.  $8(5 + 3)$  and  $45 + 24$

B.  $8(5 + 3)$  and  $8 + 8$

D.  $8(5 + 3)$  and  $40 + 3$

2) Raw data: 71, 78, 75, 82, 79, 81, 76, 83. If organized in a stem-and-leaf plot, what is the value of the 4th data point when listed in order?

A. 76

C. 79

B. 78

D. 81

3) Which statement is true about finding the median?

 A. Always take the middle value D. With odd count, take the middle B. Add all values and divide by count

value; with even, average two middle

 C. Find the most frequently occurring value

values

4) A dataset's five-number summary is:  $\min = 9$ ,  $Q_1 = 14$ ,  $\text{median} = 19$ ,  $Q_3 = 26$ ,  $\max = 35$ . Calculate the upper whisker length (from  $Q_3$  to  $\max$ ).

5) Which measure of spread is most affected by outliers?

 A. Interquartile range C. Range B. Mean absolute deviation D. Median

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For more practice  
& answers

6) A spinner has 8 equal sections. Two sections are red, three are blue, and three are green. What is the probability of spinning green?

A.  $\frac{1}{8}$

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

C.  $\frac{3}{8}$

D.  $\frac{5}{8}$

7) A stem-and-leaf plot shows test scores: Stem 6: Leaf 5, 7, 9 Stem 7: Leaf 1, 2, 2, 4, 4, 8 Stem 8: Leaf 0, 3, 6, 9 Stem 9: Leaf 2, 5

What is the median test score?

A. 72

B. 80

C. 78

D. 74

8) Which expression has exactly 4 terms?

A.  $2a + 5$

B.  $3x + 2y + 4z + 1$

C.  $6m$

D.  $7p + 3q$

9) For 3, 5, 7, 9, 11, 13, 15, find the interquartile range.

10) A coordinate plane shows a rectangle with vertices at (1, 2), (7, 2), (7, 8), and (1, 8).

What is the area of the rectangle?

A. 30 square units

B. 48 square units

C. 42 square units

D. 36 square units



**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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For more practice  
& answers

## Louisiana Practice Test Answers and Explanations

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

### Practice Test 1 Answers and Explanations

- Choice A is correct.** **(6.G.A.4)** A 5-square net (center + 4 adjacent) needs exactly 1 more face. Attaching it to any of the outer edges of the 4 surrounding squares will complete a valid cube net (e.g., a T-shape or an extended cross).
- Choice C is correct.** **(6.RP.A.3c)** 30% of \$18 =  $0.30 \times 18 = \$5.40$ . Sale price is  $\$18 - \$5.40 = \$12.60$ .
- Choice C is correct.** **(6.RP.A.3)** The scale bar represents 2 cm = 40 km. So 8 cm =  $4 \times 40 = 160$  km.
- Choice D is correct.** **(6.NS.B.4)** The greatest common factor of 16 and 32 is 16. Factoring out 16 gives  $16 + 32 = 16(1 + 2)$ .
- Choice C is correct.** **(6.NS.C.8)** First reflect across the  $x$ -axis:  $(a, b) \rightarrow (a, -b)$ . Then reflect across the  $y$ -axis:  $(a, -b) \rightarrow (-a, -b)$ .
- The correct answer is 9.** **(6.RP.A.3)** Ratio 5 : 3 with 15 red marbles: each part is  $15 \div 5 = 3$  marbles. Blue marbles:  $3 \times 3 = 9$ .
- Choice B is correct.** **(6.NS.B.3)** Multiply:  $8 \times \$2.50 = \$20.00$ .
- Choice A is correct.** **(6.NS.B.4)** When we divide 20 by each number:  $20 \div 1 = 20$ ,  $20 \div 2 = 10$ ,  $20 \div 4 = 5$ ,  $20 \div 5 = 4$ ,  $20 \div 10 = 2$ ,  $20 \div 20 = 1$ . All these are factors.
- Choice A is correct.** **(6.NS.C.5)** Total change is  $(+6) + (-3) + (-2) = 6 - 3 - 2 = 1$  point, a positive change of 1 point.
- Choice B is correct.** **(6.NS.C.7c)** Absolute value measures distance from zero. Distance is always positive or zero, so  $|-8| = 8$ .
- Choice C is correct.** **(6.NS.C.6c)** Zero lies between  $-0.5$  and  $0.5$  on the number line, and is the only value in this range among the choices.
- Choice C is correct.** **(6.NS.B.3)** Opposite integers sum to zero:  $-6 + 6 = 0$ . The opposite of  $-6$  is 6.
- Choice A is correct.** **(6.EE.B.6)**  $3j + 5 = 20$ , so  $3j = 15$  and  $j = 5$ .
- Choice C is correct.** **(6.EE.B.8)** An open circle at  $-2$  with an arrow pointing right indicates all values strictly greater than  $-2$ .
- Choice C is correct.** **(6.G.A.2)**  $V = 6.5 \times 4 \times 2.5 = 26 \times 2.5 = 65 \text{ dm}^3$ .
- Choice C is correct.** **(6.G.A.3)** Find the side lengths from the coordinates: width =  $|8 - 1| = 7$  and height =  $|6 - 2| = 4$ . Perimeter of a rectangle is  $2(\text{width} + \text{height}) = 2(7 + 4) = 22$  units.
- Choice A is correct.** **(6.NS.C.8)** Reflection over the  $y$ -axis negates the  $x$ -coordinate:  $(3, 2) \rightarrow (-3, 2)$ .
- Choice B is correct.** **(6.SP.A.2)** The key is variability: each student has a different capacity, so data must be collected. It's not the context, the person asking, or the activity that matters—it's the expectation of varied answers.
- Choice B is correct.** **(6.SP.B.4)** The bar for the 21–30 range has a height of 8, which represents the frequency (number of students) in that range.
- The correct answer is Both A and D have a quotient of 156..** **(6.NS.B.2)** A:  $4,680 \div 30 = 156 \checkmark$ . B:  $4,500 \div 30 = 150$ . C:  $4,500 \div 25 = 180$ . D:  $2,808 \div 18 = 156 \checkmark$ . E:  $6,000 \div 40 = 150$ . Verify:  $30 \times 156 = 4,680$  and  $18 \times 156 = 2,808$ .
- The correct answer is 1.8.** **(6.RP.A.3d)** Divide:  $180 \text{ cm} \div 100 \text{ cm/meter} = 1.8$  meters.
- Choice A is correct.** **(6.SP.B.5)** Type X range =  $35 - 5 = 30$ ; Type Y range =  $30 - 10 = 20$ . Type X's larger range indicates more variability in growth.
- The correct answer is 12.** **(6.EE.C.9)** Number of weeks:  $\$180 \div \$15 \text{ per week} = 12$  weeks.
- Choice A is correct.** **(6.NS.B.3)** Positive times negative gives negative ( $-54$ ); negative times negative gives positive ( $64$ ).
- Choice C is correct.** **(6.EE.A.3)** Adding a deposit to an overdrawn balance:  $-25 + 60 = \$35$ .
- Choice A is correct.** **(6.EE.A.2a)** "The product of 4 and  $u$ " is  $4u$ . "The difference of  $4u$  and 7" means  $4u - 7$ .



Scan me!  
For more practice  
& answers

Math Detective at Work

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## Hi, Math Detective!

◇ You did such a great job! You finished 9 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

### Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

**Detective tip:** on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Detective Helper

# PRACTICE MORE. ACHIEVE MORE.

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 any test.

With 9 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 math concepts aligned with standards.



### Test Confidence

Get familiar with test formats and improve accuracy.



### 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.



9 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS