

8

Louisiana

LEAP

GRADE 6

MATH

PRACTICE TESTS

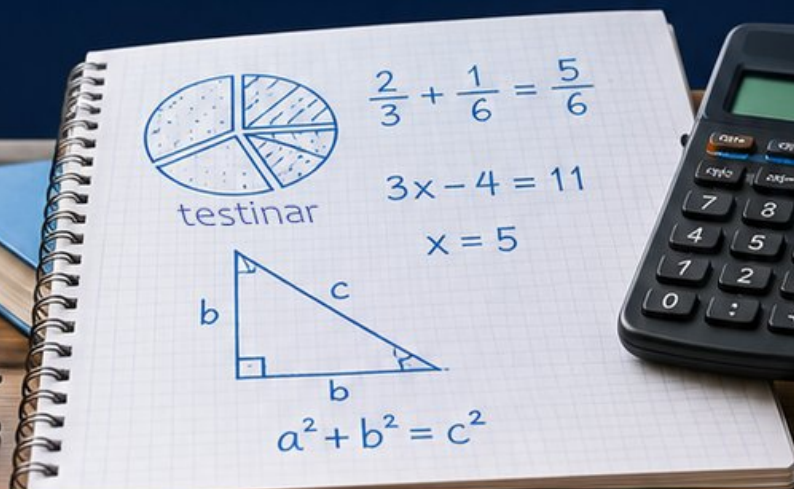
8
PRINTED
TESTS

+

2
ONLINE
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



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Louisiana LEAP Grade 6 Math Practice Tests

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



Eight 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 eight 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 eight-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.
Tests 7–8	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) Express 0.125 as a fraction and as a percent.

- A. $\frac{1}{8}$ and 12.5%
- B. $\frac{1}{4}$ and 25%

- C. $\frac{1}{2}$ and 50%
- D. $\frac{125}{1000}$ and 12.5%

2) A student saves \$5 per week. Which variable is independent?

- A. Total savings
- B. Number of weeks

- C. Amount saved per week
- D. Bank name

3) A storage crate is 12 ft long, 3 ft wide, and 4 ft high. What is its storage capacity in cubic feet?

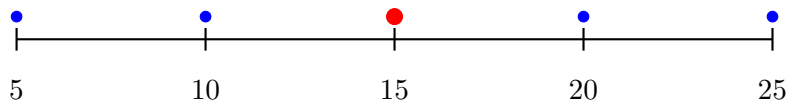
- A. 38 ft³
- B. 72 ft³

- C. 144 ft³
- D. 288 ft³

4) For $x \leq 5$, what boundary number is used on the number line?

5) Find the mean of the 5 values shown. Which also equals the median?

Mean & Median



- A. 10
- B. 25

- C. 20
- D. 15



11) Evaluate $100 - 6t$ when $t = 10$.

A. 40

C. 94

B. 60

D. 160

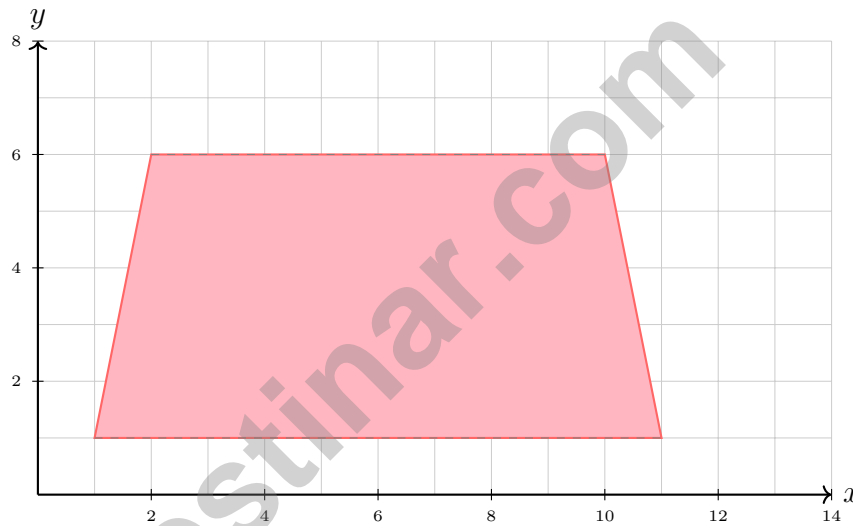
12) If a triangle has an area of 54 in^2 and a height of 9 inches, what is the length of the base?

A. 6 in

C. 27 in

B. 48 in

D. 12 in



13)

A trapezoid has bases of 10 units and 8 units, with a height of 5 units. What is its area?

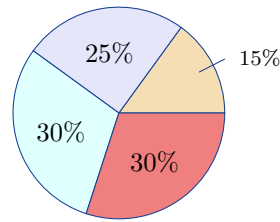
A. 40 square units

C. 50 square units

B. 45 square units

D. 55 square units





1)

A circle graph shows expenses for a business. If the total budget is \$4000, how much is allocated to the 15% category?

- A. \$500 C. \$700
 B. \$800 D. \$600

2) A rectangular prism has dimensions $\frac{3}{2}$ m, $\frac{4}{3}$ m, and $\frac{5}{2}$ m. What is its volume in cubic meters?

- A. 1.5 m^3 C. 3.5 m^3
 B. 2.5 m^3 D. 5 m^3

3) What is $\frac{-20}{4}$?

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

4) During winter, a city's average temperature dropped from 8° to -12° C. What was the temperature change?

- A. -20° C C. 4° C
 B. -4° C D. 20° C



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& answers

5) Which expression matches “the difference of a number t and 3”?

A. $3 - t$

C. $t + 3$

B. $t - 3$

D. $3t$

6) A cell-phone plan costs \$30 per month plus \$0.10 per text message. The total monthly cost is $30 + 0.10t$ where t is the number of texts. What do the terms represent?

A. 30 is the cost per text; $0.10t$ is the base cost.

C. 0.10 is the base cost; $30t$ is the cost for all texts.

B. 30 is the base cost; $0.10t$ is the cost for all texts.

D. Both are constant costs independent of usage.

7) The perimeter of a square is $P = 4s$. Find P when $s = 5$.

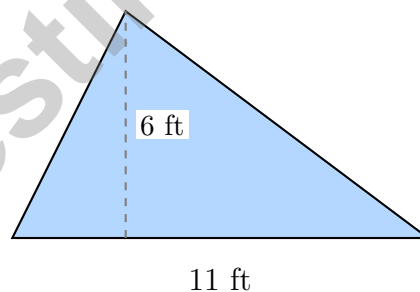
A. 9

C. 25

B. 20

D. 40

8) A landscape architect designs a triangular garden bed. The base measures 11 feet and the height is 6 feet. What is the area available for planting?



A. 17 ft^2

C. 66 ft^2

B. 33 ft^2

D. 132 ft^2



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!
For more practice
& answers

Louisiana Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice A is correct. **(6.RP.A.3c)** $0.125 = \frac{125}{1000} = \frac{1}{8}$ (simplify) = 12.5%.
- Choice B is correct. **(6.EE.C.9)** The number of weeks is chosen first (independent); total savings depends on the number of weeks.
- Choice C is correct. **(6.G.A.2)** $V = 12 \times 3 \times 4 = 36 \times 4 = 144 \text{ ft}^3$.
- The correct answer is 5. **(6.EE.B.8)** The boundary value is 5.
- Choice D is correct. **(6.SP.B.5c)** Mean = $\frac{5 + 10 + 15 + 20 + 25}{5} = \frac{75}{5} = 15$. For symmetric data, mean equals median.
- Choice A is correct. **(6.NS.C.7d)** The proportional relationship between distance and time is $d = 15t$. When $t = 0$, $d = 0$, indicating the line passes through the origin. Options B and D include constants (non-proportional), and option C reverses the variables.
- Choice C is correct. **(6.NS.B.3)** A loss of \$3 per day for 12 days: $(-3) \times 12 = -36$, meaning a \$36 decrease in value.
- Choice B is correct. **(6.EE.A.3)** The valley is 120 meters lower: $350 - 120 = 230$ meters.
- Choice C is correct. **(6.EE.A.2a)** "The product of y and 9" is $9y$. "7 less than $9y$ " means subtract 7 from $9y$: $9y - 7$.
- Choice A is correct. **(6.EE.A.2b)** Term 3 is $2y$, so the coefficient is 2.
- Choice A is correct. **(6.EE.A.2c)** Substitute $t = 10$: $100 - 6(10) = 100 - 60 = 40$.
- Choice D is correct. **(6.G.A.1)** $54 = \frac{1}{2} \times b \times 9 \Rightarrow b = 12$ in.
- Choice B is correct. **(6.G.A.1)** Area of a trapezoid = $\frac{1}{2}(b_1 + b_2) \times h = \frac{1}{2}(10 + 8) \times 5 = \frac{1}{2} \times 18 \times 5 = 45$ square units.
- Choice D is correct. **(6.G.A.4)** Original $SA = 2(10)(6) + 2(10)(4) + 2(6)(4) = 248 \text{ cm}^2$. New dimensions $20 \times 12 \times 8$: new $SA = 2(20)(12) + 2(20)(8) + 2(12)(8) = 992 \text{ cm}^2 = 4 \times 248$. When all linear dimensions double, surface area multiplies by $2^2 = 4$.
- Choice C is correct. **(6.SP.A.2)** Skewed distributions have extreme outliers that pull the mean away from the median. Symmetric distributions have nearly equal mean and median.
- The correct answer is 8. **(6.G.A.1)** Using $A = b \times h$: $96 = b \times 12$, so $b = 8$ m.
- Choice C is correct. **(6.RP.A.1)** The upper whisker extends from Q_3 to the maximum, representing the top 25% (the fourth quartile) of the data.
- The correct answer is 35% of \$40 = $0.35 \times 40 = \$14$ (discount); Sale price is $\$40 - \$14 = \$26$. Choices A and B are correct.. **(6.RP.A.3c)** Discount: 35% of \$40 = $0.35 \times 40 = \$14$, so choice A is correct. Sale price: $\$40 - \$14 = \$26$, so choice B is correct. Choice C (\$28) and choice D (\$25) are incorrect discount/price combinations. Choice E (\$35) confuses the percent with the original price and is incorrect.
- Choice A is correct. **(6.SP.B.5)** A smaller range indicates less spread and more consistency. Class X's range of 8 is smaller than Class Y's range of 12.
- Choice A is correct. **(6.NS.B.3)** Five equal sections, one labeled A. Probability = $\frac{1}{5}$.
- Choice B is correct. **(6.SP.B.4)** In order: 202, 205, 207, 211, 213, 216, 218, 220, 224, 226, 229. With 11 values, the median is the 6th value: 216 ms.
- Choice C is correct. **(6.NS.A.1)** $\frac{3}{8} = 37.5\%$. So $\frac{3}{8} \times 400 = 1200 \div 8 = 150$ lunches.
- Choice D is correct. **(6.RP.A.1)** A helpful way to check is to simplify. Divide both parts of $5 : 15$ by 5: $\frac{5}{5} : \frac{15}{5} = 1 : 3$.
- Choice D is correct. **(6.RP.A.3)** The bead pattern is $4 : 6$, which simplifies to $2 : 3$. Choice D says $3 : 4$, which changes the relationship, so it is the statement that is not correct.



Hi, Math Athlete!

◇ 8 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students 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
- ✓ 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.



Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS