

Louisiana LEAP

GRADE 6 MATH PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



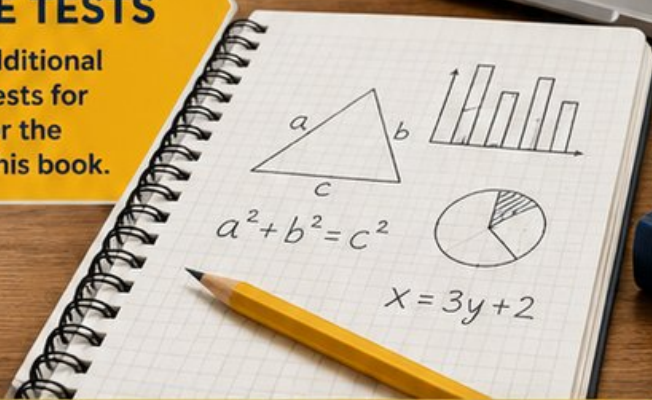
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



5 Louisiana LEAP Grade 6 Math Practice Tests

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



Five 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 five 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 five-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 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	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.

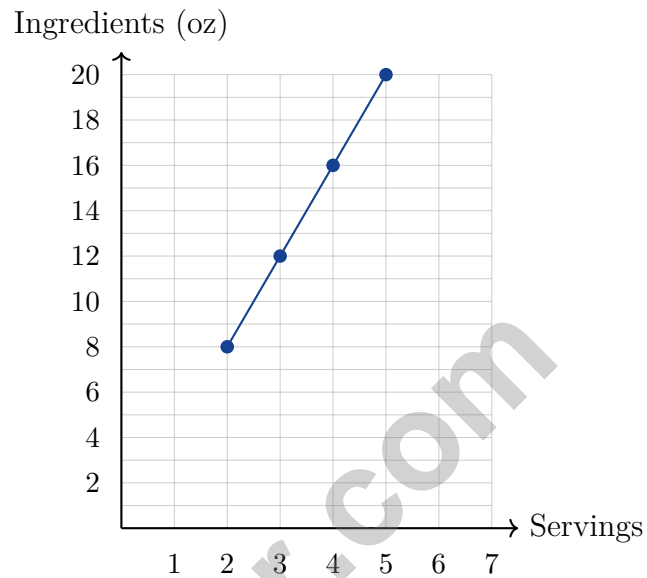


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For more practice
& answers

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- 3) A graph shows the relationship between recipe servings and total ingredients. The line contains the points $(2, 8)$, $(3, 12)$, $(4, 16)$, and $(5, 20)$.
What is the amount of ingredients per serving?



- A. 2 oz per serving
- B. 8 oz per serving
- C. 6 oz per serving
- D. 4 oz per serving
- 4) Find the mean of 48, 50, 52, 49, 51, 50, 48. Round to the nearest tenth.



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5) A pencil is 0.15 meters long. A pen is 0.08 meters long. How much longer is the pencil?

A. 0.07 meters

C. 0.07 cm

B. 0.23 meters

D. 1.87 meters

6) The opposite of 7 is -7 . Which pair of integers are opposites?

A. 3 and -3

C. 2 and -8

B. -5 and -5

D. 0 and 1

7) A storage box has dimensions $2\frac{1}{2}$ m by $1\frac{1}{2}$ m by 2 m. Find its volume.

A. 6 m^3

C. 9 m^3

B. 7.5 m^3

D. 12.5 m^3

8) A spinner is divided into 5 equal sections. The probability of spinning a particular color is $\frac{1}{5}$ or 20%. If the spinner is spun 100 times, about how many times would you expect to land on that color?

9)



The diagram shows coral and green counters. What is the ratio of green to coral?

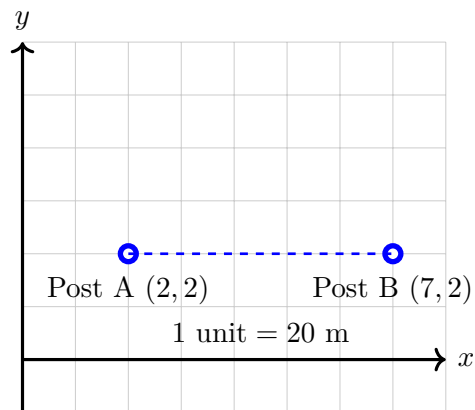
A. 4 : 3

C. 7 : 4

B. 7 : 3

D. 3 : 4





1)

Two fence posts are located at $(2, 2)$ and $(7, 2)$ on a map. If each unit equals 20 meters, what is the actual distance between the posts?

- A. 80 m C. 120 m
- B. 140 m D. 100 m

2) Calculate $-8 - (-12)$ and explain why subtracting a negative is like adding a positive.

3) A dataset has $Q_1 = 8$ and $Q_3 = 20$. What is the range of the middle 50% of the data?

- A. 8 C. 20
- B. 28 D. 12



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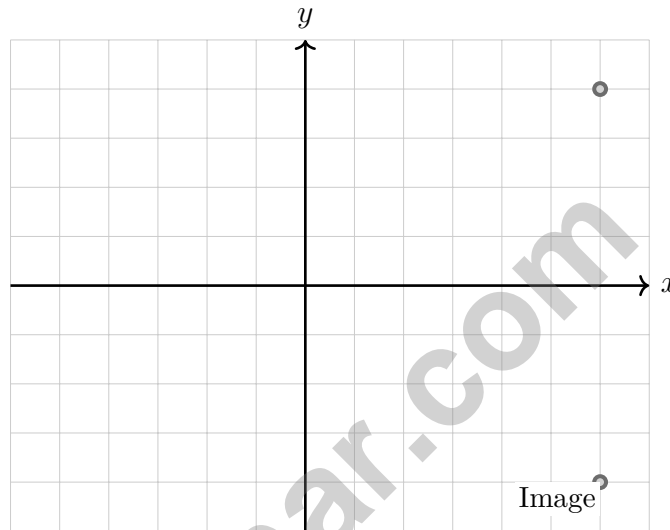
1) Which expression is equivalent to $2(5x - 4)$?

A. $10x - 8$

C. $5x - 8$

B. $7x - 2$

D. $10x - 4$



2)

A point is reflected over the x -axis. Its image is at $(6, -4)$. Where was the original point?

A. $(-6, -4)$

C. $(6, -4)$

B. $(-6, 4)$

D. $(6, 4)$

3) A box plot is constructed for the data set: 5, 8, 10, 12, 15, 18, 22. The box extends from 8 to 18. This means:

A. The range is 10.

C. The mean is 12.

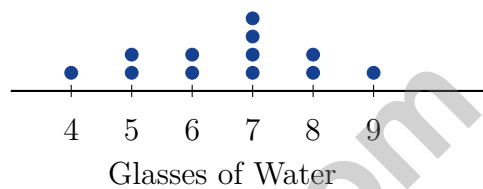
B. $Q1 = 8$ and $Q3 = 18$.

D. All values are between 8 and 18.



- 4) Write $\frac{3}{4}$ as a decimal.

- 5) A dot plot displays the number of glasses of water consumed daily by 12 people. The values are: 4, 5, 5, 6, 6, 7, 7, 7, 7, 8, 8, 9. Which is true?



- A. The mode is 5 glasses
- B. The mode is 7 glasses
- C. The range is 6 glasses
- D. The median is 5 glasses
- 6) For the inequality $x < 3$, what boundary number is used on the number line?

- 7) Which part of a box plot represents the bottom 25% of the data?

- A. The lower whisker.
- B. The left side of the box.
- C. The median line.
- D. The upper whisker.



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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 five 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.SP.B.5c) Mean = $\frac{2.5 + 3 + 2 + 4.5}{4} = \frac{12}{4} = 3$ cm.
- 2) **Choice B is correct.** (6.RP.A.3) To find drawing length from actual length, divide by the scale factor: $24 \text{ m} \div 6 \text{ m/cm} = 4 \text{ cm}$. The student confused the direction of the ratio.
- 3) **Choice D is correct.** (6.RP.A.3a) The unit rate is $8 \div 2 = 4$ oz per serving. Verify: $12 \div 3 = 4$ oz per serving ✓; $16 \div 4 = 4$ oz per serving ✓.
- 4) **The correct answer is 49.7.** (6.SP.B.5) The sum is 348, and $348 \div 7 \approx 49.7$.
- 5) **Choice A is correct.** (6.NS.B.3) Subtract: $0.15 - 0.08 = 0.07$ meters. Align decimal points.
- 6) **Choice A is correct.** (6.NS.C.5) Opposites are two numbers that are the same distance from zero but on opposite sides of zero. 3 is 3 units right of zero, and -3 is 3 units left of zero.
- 7) **Choice B is correct.** (6.G.A.2) $V = 2.5 \times 1.5 \times 2 = 3.75 \times 2 = 7.5 \text{ m}^3$.
- 8) **The correct answer is 20.** (6.NS.B.3) Expected number of spins = $0.2 \times 100 = 20$ times.
- 9) **Choice D is correct.** (6.RP.A.1) The order is green to coral. Count 3 green counters and 4 coral counters, so the ratio is 3 : 4.
- 10) **Choice A is correct.** (6.RP.A.3) Dress shirts are the 4-part amount. Since $20 \div 4 = 5$, each part is worth 5 shirts, so polo shirts are $5 \times 5 = 25$.
- 11) **Choice A is correct.** (6.RP.A.3d) Divide sugar by cookies: $\frac{1}{2} \div 12 = \frac{1}{2} \times \frac{1}{12} = \frac{1}{24}$ cup per cookie.
- 12) **Choice C is correct.** (6.RP.A.3b) Plan X costs $18 \div 4.5 = \$4.00$ per GB. Plan Y costs $27.50 \div 7.5 = 3.\overline{66}$ per GB (approximately \$3.67), so Plan Y costs less per gigabyte.
- 13) **The correct answer is 43.** (6.SP.B.4) In order: 32, 35, 38, 41, 43, 46, 49, 50, 54. With 9 values (odd), the median is the 5th value: 43.
- 14) **Choice B is correct.** (6.RP.A.3) The ratio is 2 : 50 or 1 : 25. For 6 oz of chlorine: $6 \times 25 = 150$ gallons.
- 15) **Choice D is correct.** (6.RP.A.3c) Percent means “per 100.” So $72\% = \frac{72}{100}$.
- 16) **Choice C is correct.** (6.RP.A.3c) 35% of \$60 = $0.35 \times 60 = \$21$. Sale price is $\$60 - \$21 = \$39$.
- 17) **Choice D is correct.** (6.RP.A.3) Unit rate: $120 \div 3 = 40$ pages per minute. In 10 minutes: $40 \times 10 = 400$ pages.
- 18) **The correct answer is The box shows the middle 50% (from Q_1 to Q_3), and the whiskers extend to min and max.** (6.RP.A.1) B is correct: the box spans from Q_1 to Q_3 , the middle 50% of the data. E is correct: the whiskers extend out to the minimum and maximum. A is wrong because the median splits the data by count, not necessarily at the numerical center. C is wrong because IQR is $Q_3 - Q_1$, not max - min. D is wrong because Q_1 is at most equal to the median, not strictly below it (they can be equal when many values cluster at the lower end).
- 19) **Choice C is correct.** (6.RP.A.3d) Multiply: $1.2 \times 1000 = 1200$ grams.
- 20) **Choice B is correct.** (6.NS.C.7d) Amy: $\$8.00 \times 8 = \64 . Ben: $\$7.00 \times 12 = \84 . So Ben earns more.
- 21) **Choice C is correct.** (6.NS.C.7d) A constant increase alone is not enough, but this table also passes through (0, 0) and has a constant ratio: $c/a = 3/2 = 6/4 = 9/6 = 1.5$. Those facts confirm proportionality.
- 22) **Choice D is correct.** (6.NS.A.1) Keep the first fraction, invert the second, and multiply.
- 23) **Choice B is correct.** (6.NS.B.2) $7,280 \div 35 = 208$ remainder 4. Check: $35 \times 208 + 4 = 7,280$.
- 24) **Choice D is correct.** (6.NS.B.4) Factors of 16: 1, 2, 4, 8, 16. Factors of 40: 1, 2, 4, 5, 8, 10, 20, 40. The greatest common factor is 8.
- 25) **Choice B is correct.** (6.NS.B.4) $5(2 + 8) = 5 \cdot 2 + 5 \cdot 8 = 10 + 40 = 50$. Only Choice B shows the correct expansion via the distributive property.
- 26) **Choice B is correct.** (6.NS.C.6c) Closest to zero means smallest absolute value. $|-0.4| = 0.4$, which is less than all other absolute values.



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Hi, Brave Explorer!

◇ What a trip! You explored 5 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 5 tests, you learned a lot. You are a stronger math explorer now. ★

Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

Explorer tip: on test day, use the tools you packed. You have the skills. You are ready!

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

Jay Daie

Your Math Trail Guide

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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