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Louisiana LEAP

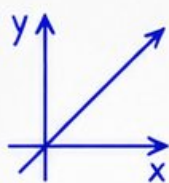
GRADE

7

MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$



$$V = \pi r^2 h$$



5 PRINTED
TESTS



2 ONLINE
TESTS

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



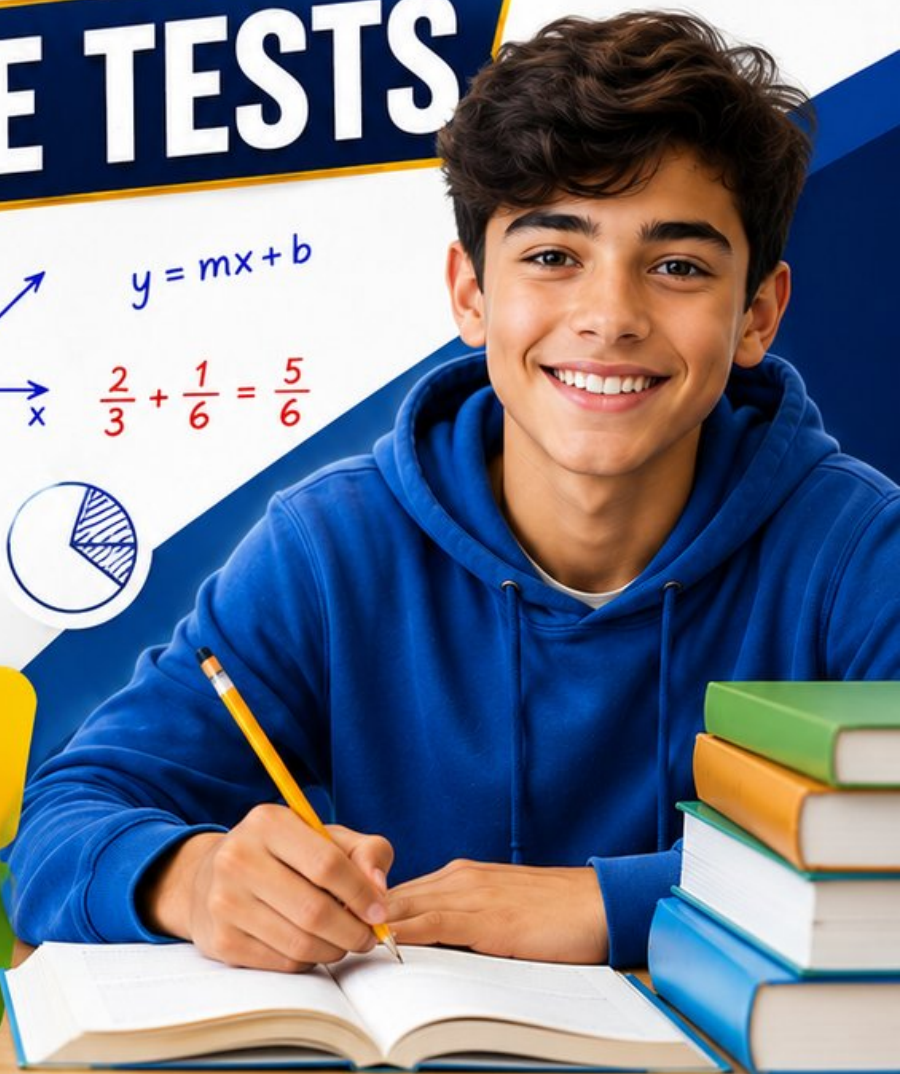
Strengthen
Math Skills



Detailed Answers
& Explanations



Improve Test
Performance



5 Louisiana LEAP Grade 7 Math Practice Tests

Focused Standards Practice with Keys, Review, and Explanation Pages



Five complete 40-question Grade 7 LEAP practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Louisiana Grade 7 Problem Solver!

Five focused rounds for sharper LEAP math thinking

This book gives you five full Grade 7 LEAP math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Louisiana Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

A five-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Louisiana review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Five LEAP tests, 200 questions, and a focused review path

Part	What You Will Practice
Tests 1–2	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 3–5	Expressions, equations, inequalities, scale drawings, geometry, data, probability, and multi-step problem solving.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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For more practice
& answers

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- 1) An elevator starts at the 5th floor, goes down 8 floors, then up 6 floors. On which floor does it end?
- ☐ A. Floor -3 ☐ C. Floor 3
☐ B. Floor 1 ☐ D. Floor 19
- 2) A city planner wants to find the actual distance between two landmarks from a map. The map scale is 1 cm : 0.5 km. The distance on the map is 8 cm. What is the actual distance?
- ☐ A. 0.5 km ☐ C. 16 km
☐ B. 0.0625 km ☐ D. 4 km
- 3) Evaluate: $-6 - (-6)$
- ☐ A. -12 ☐ C. 12
☐ B. 1 ☐ D. 0
- 4) A factory produced 500 items. If 18% were defective, how many defective items were there?
- ☐ A. 70 ☐ C. 90
☐ B. 80 ☐ D. 100
- 5) Compute $-28 + (-15)$.
- ☐ A. -43 ☐ C. 13
☐ B. -13 ☐ D. 43



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6) If a sector in a circle graph measures 72° , what percent of the circle does it represent?

☐ A. 10%

☐ C. 20%

☐ B. 15%

☐ D. 25%

7) A runner covers $\frac{3}{4}$ of a mile in $\frac{1}{6}$ of an hour. What is the runner's speed in miles per hour?

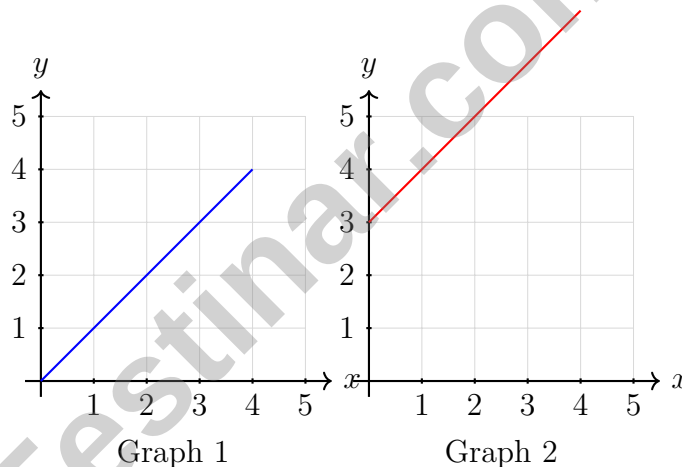
☐ A. $\frac{1}{12}$ mph

☐ C. $\frac{3}{4}$ mph

☐ B. $\frac{1}{8}$ mph

☐ D. $\frac{9}{2}$ mph

8) Two graphs are shown. Graph 1 has a line from $(0,0)$ to $(4,4)$. Graph 2 has a line from $(0,3)$ to $(4,7)$. Which is proportional?



☐ A. Neither is proportional

☐ C. Both are proportional

☐ B. Graph 2 is proportional

☐ D. Graph 1 is proportional



- 9) A bank account grows at a constant rate over months. After 3 months, the balance is \$450. After 8 months, the balance is \$1200. Which statement explains whether this relationship is proportional?
- ☐ A. Cannot determine without more data.
- ☐ B. No, because the balances are different.
- ☐ C. No, because $1200 - 450$ is not equal to $8 - 3$.
- ☐ D. Yes, because the unit rate is constant.
- 10) Which proportion is equivalent to “Find 38% of 210”?
- ☐ A. $\frac{38}{210} = \frac{100}{x}$
- ☐ B. $\frac{210}{100} = \frac{x}{38}$
- ☐ C. $\frac{x}{210} = \frac{100}{38}$
- ☐ D. $\frac{38}{100} = \frac{x}{210}$
- 11) Marcus’s score was -15 points. He earned 8 points for a correct answer, then lost 3 points. What is his new score?
- ☐ A. -26 points
- ☐ B. 10 points
- ☐ C. -10 points
- ☐ D. -20 points
- 12) Evaluate $4x^2 - 3x$ when $x = 2$.
- ☐ A. 2
- ☐ B. 4
- ☐ C. 16
- ☐ D. 10



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1) A house's value decreased from \$300 000 to \$255 000. What is the percent decrease?

☐ A. 85%

☐ C. 45 000%

☐ B. 17.6%

☐ D. 15%

2) A store owner reads an advertisement incorrectly. The ad says "25% off all winter coats!" Instead, she marks coats down by \$25 each. A coat originally priced at \$125 is marked at \$100. What is the actual percent discount she gave?

☐ A. 25%

☐ C. 20%

☐ B. \$25

☐ D. 50%

3) A proportional relationship is modeled by the equation $y = \frac{7}{2}x$. What is the value of y when $x = 6$?

☐ A. $y = 12$

☐ C. $y = \frac{7}{12}$

☐ B. $y = 18$

☐ D. $y = 21$

4) Simplify $12x - 8x + 5y - 2y - x$, then evaluate when $x = 1$ and $y = 2$.

5) Which equation represents a proportional relationship with a constant of proportionality of 3?

☐ A. $y = 3x + 2$

☐ C. $y = \frac{x}{3}$

☐ B. $y = x + 3$

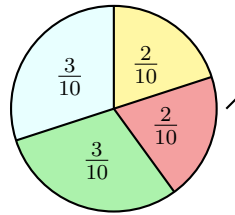
☐ D. $y = 3x$



- 6) A rectangular prism has length 11 cm, width 5 cm, and height 3 cm. What is its surface area?

☐ A. 166 cm^2
☐ B. 206 cm^2

☐ C. 222 cm^2
☐ D. 330 cm^2



7)

A spinner with four unequal sections is spun 350 times. Section A has probability $\frac{3}{10}$ and Section B has probability $\frac{2}{10}$. How many times would you expect to see either Section A or Section B?

☐ A. 70 times
☐ B. 105 times

☐ C. 140 times
☐ D. 175 times

- 8) Solve: $2(x + 3) = 14$

☐ A. $x = 2$
☐ B. $x = 3$

☐ C. $x = 4$
☐ D. $x = 7$

- 9) Solve: $5(x - 2) = 30$ and verify using inverse operations.

☐ A. $x = 6$
☐ B. $x = 8$

☐ C. $x = 10$
☐ D. $x = 12$



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1) Simplify: $-\frac{1}{2}a + \frac{3}{2}a - a$

☐ A. a

☐ C. $\frac{1}{2}a$

☐ B. 0

☐ D. $2a$

2) A climber ascends 150 feet then descends 210 feet. What is the net change in elevation?

☐ A. -360 ft

☐ C. 60 ft

☐ B. -60 ft

☐ D. 360 ft

3) A student evaluates $5 - 3x$ when $x = 2$ and writes: " $5 - 3(2) = 5 - 6 = -1$." Is this correct?

☐ A. No, the error is in the multiplication step

☐ C. No, the variable should not be substituted

☐ B. No, the error is in the subtraction step

☐ D. Yes, the answer is -1

4) Solve: $3(2x + 1) = 27$

☐ A. $x = 3$

☐ C. $x = 9$

☐ B. $x = 4$

☐ D. $x = 12$

5) Which inequality represents "the sum of a number and 2 is not equal to 7"?

☐ A. $n + 2 \neq 7$

☐ C. $n \neq 5$

☐ B. $n + 2 = 7$

☐ D. $n + 7 \neq 2$



6) A teenager has \$500 in savings and wants to invest it at 6% annual interest. What will be the total balance after 1 year?

☐ A. \$506

☐ C. \$560

☐ B. \$600

☐ D. \$530

7) Solve: $\frac{x}{4} - 2 = 3$

8) A kitchen scales recipe calls for $\frac{2}{3}$ cup sugar per batch. How many batches can be made with 6 cups?

☐ A. 4 batches

☐ C. 9 batches

☐ B. 6 batches

☐ D. 12 batches

9) Convert 0.125 to a fraction in simplest form.

☐ A. $\frac{1}{8}$

☐ C. $\frac{1}{12}$

☐ B. $\frac{125}{1000}$

☐ D. $\frac{5}{40}$

10) Convert 0.00042 to scientific notation.

☐ A. 4.2×10^{-4}

☐ C. 4.2×10^{-3}

☐ B. 4.2×10^{-5}

☐ D. 42×10^{-4}



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Louisiana LEAP Grade 7 Practice Test Answer Keys**How to use this section with a Grade 7 student:**

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Louisiana LEAP practice test.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (7.NS.1-7.NS.3) Start at 5, go down 8: $5 - 8 = -3$ (basement). Then up 6: $-3 + 6 = 3$.
- 2) **Choice D is correct.** (7.RP.1-7.RP.3) Multiply: $8 \times 0.5 = 4$ km.
- 3) **Choice D is correct.** (7.NS.1-7.NS.3) $-6 - (-6) = -6 + 6 = 0$. A number minus itself is always 0.
- 4) **Choice C is correct.** (7.RP.3) 18% of 500 is $0.18 \times 500 = 90$ items.
- 5) **Choice A is correct.** (7.NS.1b) Both numbers are negative; add absolute values: $|-28| + |-15| = 28 + 15 = 43$, and keep the negative sign: -43 .
- 6) **Choice C is correct.** (7.SP.1-7.SP.4) Angle $\div 360^\circ \times 100 = 72^\circ \div 360^\circ \times 100 = 20\%$.
- 7) **Choice D is correct.** (7.RP.1-7.RP.3) Unit rate = $\frac{3/4}{1/6} = \frac{3}{4} \times 6 = \frac{18}{4} = \frac{9}{2} = 4.5$ mph.
- 8) **Choice D is correct.** (7.RP.1-7.RP.3) Graph 1 passes through origin $(0, 0)$ with slope $k = 1$. Graph 2 has y -intercept 3, so not proportional.
- 9) **Choice D is correct.** (7.RP.1-7.RP.3) Calculate the unit rate from each data point: $\$450 \div 3 = \150 per month and $\$1200 \div 8 = \150 per month. Since both unit rates are $\$150$ per month, the relationship is proportional.
- 10) **Choice D is correct.** (7.RP.3) To find 38% of 210, set percent over 100 equal to part over whole: $\frac{38}{100} = \frac{x}{210}$. Cross-multiply: $x \approx 80$.
- 11) **Choice C is correct.** (7.NS.1-7.NS.3) $-15 + 8 - 3 = -7 - 3 = -10$ points.
- 12) **Choice D is correct.** (7.EE.1-7.EE.2) Substitute: $4(2)^2 - 3(2) = 4(4) - 6 = 16 - 6 = 10$.
- 13) **Choice D is correct.** (7.RP.3) Account B at 6% earns more growth than Account A at 4% over the same period. The chart reflects this with the higher bar for Account B at Month 6.
- 14) **Choice B is correct.** (7.NS.1-7.NS.3) $(-20) \div y = -4$ means $y = (-20) \div (-4) = 5$.
- 15) **Choice C is correct.** (7.NS.2d) Divide $7 \div 20 = 0.35$, not 0.7. The student may have confused the operation or misread the fraction.
- 16) **Choice B is correct.** (7.NS.1-7.NS.3) Balance = $250.80 - 45.50 - 32.75 + 60.00 = 232.55$ dollars.
- 17) **Choice D is correct.** (7.NS.1-7.NS.3) $0.0056 = 5.6 \times 10^{-3}$ (proper form). Check: $56 \times 10^{-4} = 5.6 \times 10^{-3}$ (equiv.), $0.56 \times 10^{-2} = 5.6 \times 10^{-3}$ (equiv.), but $5.6 \times 10^{-2} = 0.056 \neq 0.0056$.
- 18) **The correct answer is 60.** (7.RP.1-7.RP.3) Each ratio gives the same unit rate: $120 \div 2 = 60$, $180 \div 3 = 60$, and $300 \div 5 = 60$.
- 19) **The correct answer is A,D.** (7.RP.1-7.RP.3) Options A and D are the two correct answers. A is true because $y = kx = 2x$ is the equation for any proportional relationship with $k = 2$. D is true because substituting $x = 2$ into $y = 2x$ gives $y = 4$. All other options are false.
- 20) **Choice B is correct.** (7.NS.1-7.NS.3) According to the perfect squares table, $\sqrt{81} = 9$ because $9 \times 9 = 81$.
- 21) **Choice A is correct.** (7.SP.3) Restaurant X has most data points near 5 minutes with range 4 (from 3 to 7). Restaurant Y's range is 13 (from 2 to 15) with data spread across the range, making it less predictable.
- 22) **Choice C is correct.** (7.SP.5-7.SP.8) Prime numbers on a die: 2, 3, 5 (three primes). $P(\text{prime}) = \frac{3}{6} = \frac{1}{2}$.
- 23) **Choice B is correct.** (7.NS.2) Negative times negative always yields a positive product.
- 24) **Choice C is correct.** (7.RP.3) Total cost = $30 + (45 \times 6) = 30 + 270 = \300 .
- 25) **Choice A is correct.** (7.SP.1-7.SP.4) Nine values: 14, 17, 21, 25, 28, 32, 34, 36, 39. Lower half: 14, 17, 21, 25 (4 values). Q1 is median of lower half: $(17 + 21)/2 = 19$, which falls between 17 and 21.
- 26) **Choice D is correct.** (7.RP.1-7.RP.3) Sedan: $210 \div 10 = 21$ mpg. SUV: $180 \div 12 = 15$ mpg. The sedan has better fuel efficiency.
- 27) **Choice B is correct.** (7.G.4-7.G.6) Rectangle: $25 \times 16 = 400$ in². Two triangles: $2 \times \frac{1}{2} \times 5 \times 4 = 20$ in². Remaining: $400 - 20 = 380$ in².
- 28) **Choice C is correct.** (7.RP.3) Weekly income: $16 \times 40 = \$640$.
- 29) **Choice D is correct.** (7.RP.3) The compound interest formula after t years is $A = P(1+r)^t$. For $t = 2$: $A = P(1+r)^2$.
- 30) **The correct answer is \$124.** (7.RP.3) Markup = $0.55 \times 80 = \$44$. Selling price = $80 + 44 = \$124$.



Hi, Persistent Problem Solver!

◇ Some Grade 7 questions ask you to hold several ideas in your mind at once. That can feel hard, and that is exactly why practice matters. ◇

★ **Remember this:** You showed persistence by continuing through the set. That habit is powerful because difficult problems often open after one more good attempt. You practiced across 5 full Grade 7 practice tests, and that repeated effort matters. ★

Persistence Tools

- **Try a Smaller Case:** Use an easier number to see the pattern.
- **Draw It:** Make the situation visible.
- **Restate It:** Say the question in your own words.
- **Check One Step:** Fix the first unclear place.

Grade 7 test-day tip: When stuck, do not restart everything. Find the first step you trust, then rebuild from there.

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

Jay Daie

Your Persistence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **5** full-length Math practice tests and **2** online tests to help Grade 7 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:

5 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answers & 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



Build Confidence

Practice regularly to feel prepared and test-ready.



Strengthen Math Skills

Develop key math concepts and problem solving abilities.



Improve Understanding

Learn with clear explanations and step-by-step solutions.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Boost Performance

Apply your knowledge and achieve your best score!

TOPICS COVERED

- ✓ Ratios & Proportions
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Percents & Decimals
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ Algebraic Thinking
- ✓ And More!



2 ONLINE TESTS

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



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

Don't lose it—your extra practice and success start here!



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