

3

Louisiana LEAP

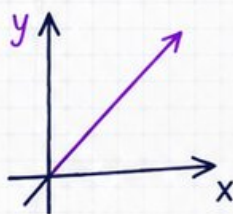
GRADE

7

MATH

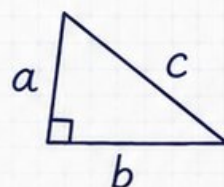
PRACTICE TESTS

- ✓ Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3}x - \frac{4}{5} = \frac{1}{2}$$



$$3(x - 2) = 2x + 5$$



3 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



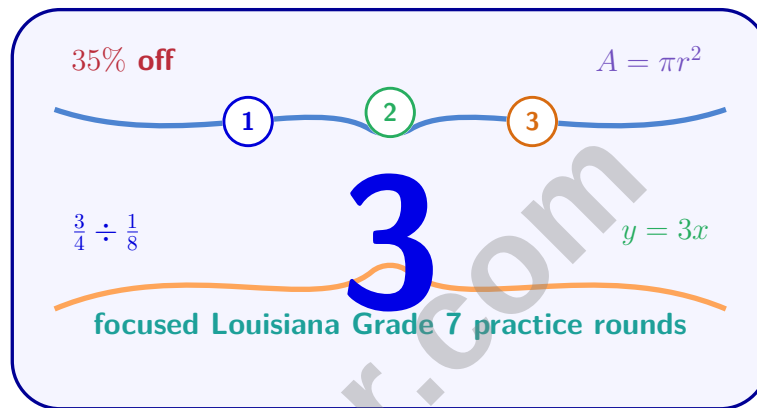
Detailed Answers
& Explanations



Improve Test
Performance

3 Louisiana LEAP Grade 7 Math Practice Tests

Standards-Based LEAP Practice with Full Answer Support



Three 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!

Three focused rounds for sharper LEAP math thinking

This book gives you three 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 three-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?

Three LEAP tests, 120 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.
Test 3	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.



Scan me!
For more practice
& answers

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1) Looking at the soccer team box plots again, where do the distributions overlap?

- ☐ A. From 4 to 6 hours (overlap of both boxes) ☐ C. Overlap occurs only at the medians
☐ B. No overlap exists between teams ☐ D. Team B completely contains Team A's range

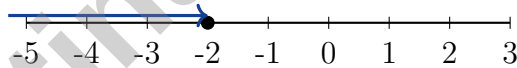
2) A student estimated a test to have 48 questions, but it actually had 60 questions. What is the percent error?

- ☐ A. 25% ☐ C. 12%
☐ B. 75% ☐ D. 20%

3) Expand: $\frac{1}{4}(8b - 12)$

- ☐ A. $2b - 3$ ☐ C. $8b - 3$
☐ B. $2b - 12$ ☐ D. $2b - 4$

4) A student graphed an inequality with a closed circle at -2 and the arrow pointing left. What is the inequality?



- ☐ A. $x > -2$ ☐ C. $x \geq -2$
☐ B. $x < -2$ ☐ D. $x \leq -2$

5) A certificate of deposit (CD) grows from \$3000 to \$3450 over 3 years using simple interest. What is the annual interest rate?

- ☐ A. 4% ☐ C. 5%
☐ B. 4.5% ☐ D. 5.5%



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6) Which expression is equivalent to $3(2y + 7)$?

☐ A. $6y + 21$

☐ C. $3y + 10$

☐ B. $6y + 7$

☐ D. $2y + 21$

7) A square pyramid has a base with side length 12 cm and slant height 10 cm. What is the surface area?

☐ A. 144 cm^2

☐ C. 384 cm^2

☐ B. 240 cm^2

☐ D. 480 cm^2

8) A landscaper creates a scale model of a garden. The model shows a square garden with side length 5 inches. The actual garden has a side length of 25 feet. What is the scale?

☐ A. $1 : 5$

☐ C. $5 : 25$

☐ B. $1 : 120$

☐ D. $1 : 60$

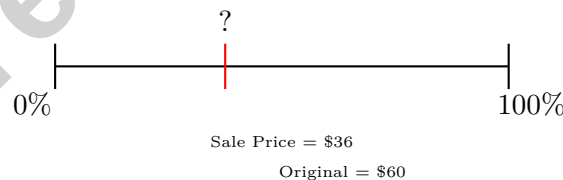
9) A student answered 36 questions correctly on a 48-question test. What percent of the questions did the student answer correctly?

☐ A. 60%

☐ C. 75%

☐ B. 70%

☐ D. 80%



10)

A discount bar shows original price \$60 and sale price \$36. What percent discount was applied?

☐ A. 30%

☐ C. 36%

☐ B. 24%

☐ D. 40%



11) Using a chip model, if we have 5 positive chips and 3 negative chips, and they cancel as much as possible, how many chips remain and what sign?

☐ A. 2 positive chips

☐ C. 8 positive chips

☐ B. 2 negative chips

☐ D. 8 negative chips

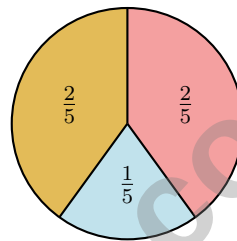
12) Simplify: $0.5x + 1.5x + 2y - y$

☐ A. $3.5xy$

☐ C. $1.5x + y$

☐ B. $2x + y$

☐ D. $3.5x + 2y$



13)

A spinner has three unequal sections with probabilities $\frac{2}{5}$, $\frac{2}{5}$, and $\frac{1}{5}$. If it is spun 250 times, approximately how many times would you expect to land on a section with probability $\frac{2}{5}$?

☐ A. 50 times

☐ C. 125 times

☐ B. 100 times

☐ D. 200 times

14) At noon, the temperature is 3°C . By midnight, the temperature falls to -12°C . How many degrees did the temperature drop?



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1) Which pair of equations is equivalent (have the same solution)?

☐ A. $2x + 6 = 16$ and $2x = 8$

☐ C. $5x + 3 = 28$ and $5x = 25$

☐ B. $3x - 4 = 8$ and $3x = 4$

☐ D. $4x - 2 = 10$ and $4x = 14$

2) A rectangular garden has actual dimensions of 15 m by 9 m. A scale drawing uses a scale of 1 cm : 3 m. What is the perimeter of the drawing in centimeters?

☐ A. 8 cm

☐ C. 24 cm

☐ B. 16 cm

☐ D. 32 cm

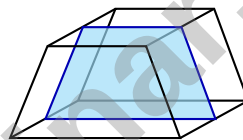
3) A scale drawing uses the ratio 1 cm : 0.5 m. If a rectangle is drawn as 10 cm by 14 cm, what are the actual dimensions?

☐ A. 10 m by 14 m

☐ C. 20 m by 28 m

☐ B. 5 m by 7 m

☐ D. 100 m by 140 m



trapezoid slice

4)

A trapezoidal prism is sliced horizontally by a plane parallel to the trapezoidal bases. What is the shape of the cross-section?

☐ A. Triangle

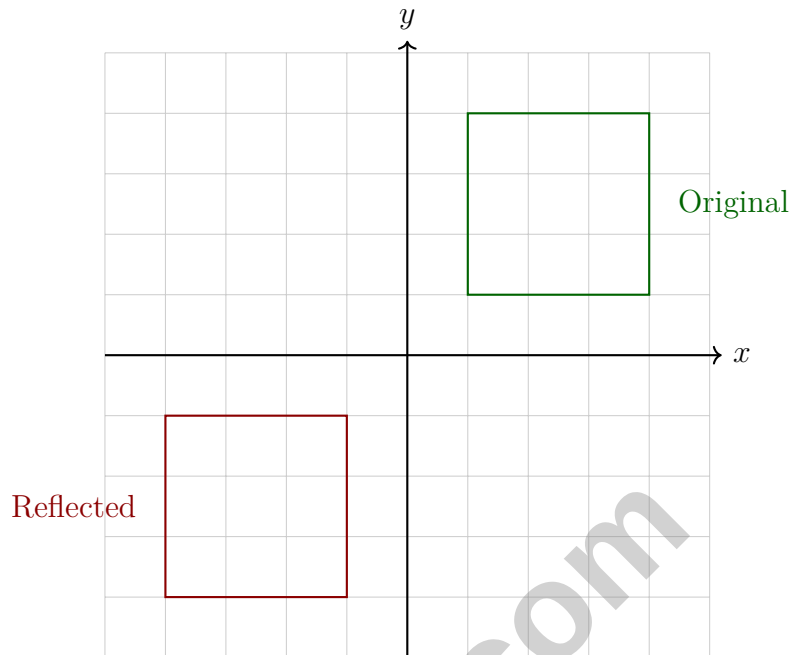
☐ C. Rectangle

☐ B. Trapezoid

☐ D. Pentagon



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5)

The dark green square is transformed to the dark red square. Which line of reflection was used?

- ☐ A. The line $y = x$ ☐ C. The x -axis
☐ B. The line $y = -x$ ☐ D. The y -axis

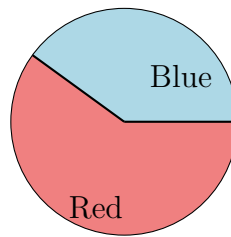
6) A hoop has circumference 31.4 meters. What is its diameter? Use $\pi \approx 3.14$.

- ☐ A. 5 m ☐ C. 15 m
☐ B. 10 m ☐ D. 20 m



1) If a triangle has sides a , b , and c where c is the longest side, and $c^2 = a^2 + b^2$, what angle measure can we conclude?

- ☐ A. The angle opposite c is 90°
☐ C. The angle opposite c is obtuse
☐ B. The angle opposite c is acute
 ☐ D. All angles are equal



2)

A spinner is divided into two sectors: Blue (144°) and Red. What is $P(\text{Red})$?

- ☐ A. $\frac{144}{360}$
☐ C. $\frac{2}{5}$
☐ B. $\frac{216}{360}$
☐ D. $\frac{3}{4}$

3) An online retailer charges a \$3 processing fee plus \$2.50 per pound for shipping. What is the shipping cost for a package weighing 4 pounds?

- ☐ A. \$10.00
 ☐ C. \$13.00
☐ B. \$10.50
 ☐ D. \$14.00

4) A bank statement shows the following transactions in one week:

Transaction	Amount
Starting balance	\$2 500
Debit card purchase	−\$45
Direct deposit (paycheck)	+\$800
ATM withdrawal	−\$100

What is the ending balance?

- ☐ A. \$2 145
 ☐ C. \$3 155
☐ B. \$2 255
 ☐ D. \$3 255



- 5) A bank offers two savings products: Account 1 earns 7% compound interest on a \$1,200 deposit; Account 2 earns 8% compound interest on a \$1,100 deposit. After 1 year, which account has the greater balance and by how much?

☐ A. Account 1 by \$96 ☐ C. Account 1 by \$50
☐ B. Account 2 by \$96 ☐ D. Account 2 by \$20

- 6) A proportional relationship has an equation $y = 2.2x$. What is the value of y when $x = 5$?

- 7) A membership fee was \$200 per year. This year it was raised by 12%. How much is the new fee?

☐ A. \$212 ☐ C. \$224
☐ B. \$220 ☐ D. \$232

- 8) What is the GCF of $28xy$ and $42x$?

☐ A. $14x$ ☐ C. $42x$
☐ B. $28xy$ ☐ D. $7x$



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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 A is correct.** (7.SP.3) Team A's box spans 2–6 hours; Team B's box spans 4–9 hours. The overlap region is where both boxes exist: from 4 to 6 hours. This means both teams have students who practice in this shared range.
- 2) **Choice D is correct.** (7.RP.3) Percent error = $\frac{|48-60|}{60} \times 100\% = \frac{12}{60} \times 100\% = 20\%$.
- 3) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute: $\frac{1}{4}: \frac{1}{4}(8b) - \frac{1}{4}(12) = 2b - 3$.
- 4) **Choice D is correct.** (7.EE.4b) A closed circle (includes the endpoint) pointing left means less than or equal to, so $x \leq -2$.
- 5) **Choice C is correct.** (7.RP.3) Interest: $3450 - 3000 = \$450$. $450 = 3000 \times r \times 3 \Rightarrow 450 = 9000r \Rightarrow r = 0.05 = 5\%$.
- 6) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute: $3(2y + 7) = 3(2y) + 3(7) = 6y + 21$. Check: factor back to verify.
- 7) **Choice C is correct.** (7.G.4-7.G.6) Base: $12^2 = 144 \text{ cm}^2$. Four triangles: $4 \times \frac{1}{2}(12)(10) = 4 \times 60 = 240 \text{ cm}^2$. Total: $144 + 240 = 384 \text{ cm}^2$.
- 8) **Choice D is correct.** (7.RP.1-7.RP.3) Convert 25 feet to inches: $25 \times 12 = 300$ inches. Scale = $5 : 300 = 1 : 60$.
- 9) **Choice C is correct.** (7.RP.3) $\frac{36}{48} = \frac{3}{4} = 0.75 = 75\%$.
- 10) **Choice D is correct.** (7.RP.3) Discount amount = $60 - 36 = \$24$. Percent = $(24/60) \times 100 = 40\%$.
- 11) **Choice A is correct.** (7.NS.1b) Model: $5 + (-3)$. Three positive and three negative chips cancel, leaving 2 positive chips (representing +2).
- 12) **Choice B is correct.** (7.EE.1) Combine x terms: $(0.5 + 1.5)x = 2x$. Combine y terms: $(2 - 1)y = y$. Result: $2x + y$.
- 13) **Choice B is correct.** (7.SP.5-7.SP.8) Expected frequency for one section with probability $\frac{2}{5}$: $\frac{2}{5} \times 250 = 100$ times.
- 14) **The correct answer is 15.** (7.NS.1-7.NS.3) The temperature drop is $3 - (-12) = 3 + 12 = 15$ degrees.
- 15) **The correct answer is \$3.** (7.RP.1-7.RP.3) Store A costs $2 \div \frac{2}{5} = 5$ dollars per pound. Store B costs $2.25 \div \frac{3}{4} = 3$ dollars per pound, so the lower price is \$3.
- 16) **Choice D is correct.** (7.RP.1-7.RP.3) From the unit-rate point $(1, 0.5)$, at $x = 6$, $y = 6 \times 0.5 = 3$ pages.
- 17) **Choice D is correct.** (7.RP.3) Using the proportion $\frac{30}{100} = \frac{x}{120}$, cross-multiply: $30 \times 120 = 100x$, so $x = 36$ items.
- 18) **Choice A is correct.** (7.NS.1-7.NS.3) Same denominator: $\frac{5}{8} - \frac{7}{8} = -\frac{2}{8} = -\frac{1}{4}$.
- 19) **The correct answer is B,D.** (7.SP.1-7.SP.4) Total is $280 + 420 + 100 = 800$. Online: $280/800 = 0.35 = 35\%$, so B is correct. In-store: $420/800 = 0.525 = 52.5\%$, so D is correct. A is wrong (not exactly 50%). C is wrong ($100/800 = 12.5\%$, not 10%).
- 20) **Choice A is correct.** (7.EE.1-7.EE.2) Substitute: $2(1) + 4(2) - 3(-1) = 2 + 8 + 3 = 13$.
- 21) **Choice C is correct.** (7.EE.1-7.EE.2) Check C: $(2c + 3) + (5c - 2) = (2c + 5c) + (3 - 2) = 7c + 1$ ✓.
- 22) **Choice B is correct.** (7.EE.3-7.EE.4) Selling price = $45 \times 1.20 = 54$.
- 23) **Choice A is correct.** (7.EE.4b) Subtract 3: $-\frac{x}{2} \geq 6$. Multiply by -2 and flip: $x \leq -12$.
- 24) **The correct answer is 60.** (7.RP.1-7.RP.3) The unit rate is $300 \div 5 = 60$ miles per hour.
- 25) **Choice D is correct.** (7.G.1-7.G.5) Angles on a straight line sum to 180° : $f = 180 - 56 = 124^\circ$.
- 26) **Choice B is correct.** (7.G.1-7.G.5) Actual length = $20 \text{ cm} \times 24 = 480 \text{ cm} = 4.8 \text{ m}$.
- 27) **Choice C is correct.** (7.SP.1-7.SP.4) A 2% response rate suggests only customers with strong opinions responded, introducing voluntary response bias.
- 28) **Choice D is correct.** (7.RP.1-7.RP.3) The price per drink is $\frac{30}{5} = 6$ dollars. So $r = 6d$.
- 29) **Choice D is correct.** (7.RP.3) Total income = $\$2,500 + \$1,800 + \$3,200 = \$7,500$. Savings = $20\% \times \$7,500 = 0.20 \times 7500 = \$1,500$.
- 30) **Choice B is correct.** (7.NS.1-7.NS.3) $\frac{5}{6} \div \frac{5}{9} = \frac{5}{6} \times \frac{9}{5} = \frac{45}{30} = \frac{3}{2}$.
- 31) **Choice B is correct.** (7.NS.2d) Divide $2 \div 7 = 0.285714285714 \dots$. The full repeating block is 285714, same as $\frac{1}{7}$ but shifted.



Hi, Brave Learner!

◇ No one gets stronger by only doing easy problems. The questions that slowed you down were part of the training. This short, concentrated book gave you three focused Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. ◇

★ **Remember this:** Mistakes are not proof that you cannot do math. They are directions. They show what to review, what to ask about, and what to practice next. ★

How to Use Mistakes

- **Name It:** Was it reading, setup, arithmetic, or checking?
- **Fix It:** Correct the work while the question is fresh.
- **Repeat It:** Try one similar problem soon.
- **Remember It:** Write the lesson in your own words.

Grade 7 test-day tip: Treat every corrected error as a point you are preparing to earn next time.

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

Jay Daie

Your Brave-Learning Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **3** 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:

3 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.

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Practice regularly to feel prepared and test-ready.



Strengthen Math Skills

Develop key math concepts and problem solving abilities.



Detailed Answers & Explanations

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



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Apply your knowledge and achieve your best score!

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- ✓ 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.



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