

8

Louisiana

LEAP

GRADE 7

MATH

PRACTICE TESTS



Standards Aligned
Problem Solving

For Comprehensive
Assessment Programs



**8 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 SKILLS



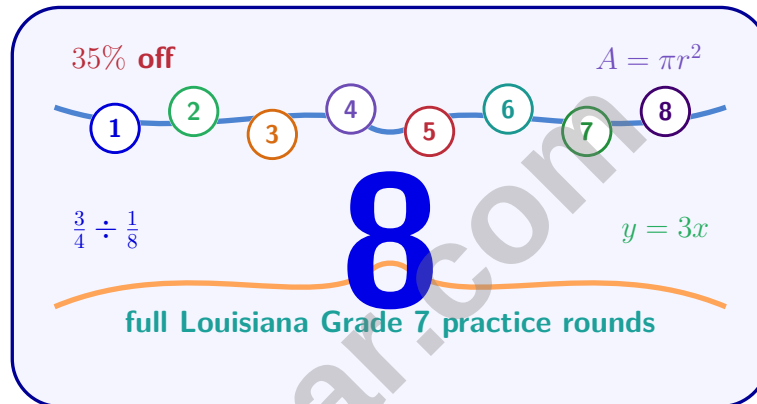
THINK SMARTER



BE TEST-READY

8 Louisiana LEAP Grade 7 Math Practice Tests

Clear-sighted review of Louisiana Grade 7 proportions, percent models, rational numbers, geometry, circle graphs, and probability



Eight 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!

Eight focused rounds for sharper LEAP math thinking

This book gives you eight 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

An eight-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?

Eight LEAP tests, 320 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–8	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
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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& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	29
★ Practice Test 3	_____	44
★ Practice Test 4	_____	60
★ Practice Test 5	_____	73
★ Practice Test 6	_____	87
★ Practice Test 7	_____	102
★ Practice Test 8	_____	117
Practice Test Answer Keys	_____	131
Practice Test Answers and Explanations	_____	136

- 1) A researcher flipped three coins 160 times and recorded how many came up heads each time:

Heads Count	0	1	2	3
Frequency	22	56	62	20

What is the experimental probability of getting exactly 2 heads?

- ☐ A. $\frac{2}{3}$
☐ C. 0.31
☐ B. $\frac{62}{160}$
☐ D. 0.39

- 2) Solve: $2x + 7 \geq -1$

- ☐ A. $x \geq -4$
☐ C. $x \leq -4$
☐ B. $x \geq 3$
☐ D. $x > -4$

- 3) A student's score changes are shown. What is the final change?

Event	Points
Penalty	-1.5
Correct answer	+3.2
Time deduction	-0.8

- ☐ A. 5.5
 ☐ C. 0.9
☐ B. 0.1
 ☐ D. -0.1

- 4) A business has a loss of \$55 (represented as -55). To break even, what signed number must be added to the loss?



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5) Which division expression equals 2?

☐ A. $\frac{1}{3} \div \frac{1}{3}$

☐ B. $\frac{2}{5} \div \frac{4}{5}$

☐ C. $\frac{4}{7} \div \frac{2}{7}$

☐ D. $\frac{3}{8} \div \frac{3}{4}$

6) A gardener plants flowers in rows at a density of $\frac{3}{4}$ flower per inch. How many flowers are planted across a row that is 16 inches long?

☐ A. 9 flowers

☐ B. 12 flowers

☐ C. 16 flowers

☐ D. 21.3 flowers

7) Simplify: $(14k - 6) - (5k + 2)$

☐ A. $9k - 8$

☐ B. $9k + 8$

☐ C. $19k - 8$

☐ D. $9k - 4$

8) A student's account balance is \$125.75. She makes purchases of \$42.50, \$18.25, and \$21.00. Then she deposits a check for \$75.50. What is her final balance?

9) A cell is 2.5×10^{-5} meters wide. Convert this to standard form in meters.



10) Simplify: $\frac{n^9}{n^4}$

☐ A. n^5

☐ B. n^{13}

☐ C. n^{36}

☐ D. $\frac{n^4}{n^9}$

11) A balance scale has $3x$ on the left and 24 on the right. What is x ?

☐ A. $x = 4$

☐ B. $x = 6$

☐ C. $x = 8$

☐ D. $x = 12$

12) A student solves $4x - 6 = 10$ and writes: "Step 1: $4x = 16$. Step 2: $x = 4$." Which best describes the work?

☐ A. All steps are correct

☐ B. Step 1 is wrong; should be $4x = 4$

☐ C. Step 2 is wrong; should be $x = 16$

☐ D. Both steps have errors

13) Convert $\frac{5}{9}$ to a decimal.

☐ A. 0.5

☐ B. 0.55

☐ C. $0.\bar{5}$

☐ D. 0.59

14) A recipe calls for $2\frac{1}{2}$ cups of flour, written as $(2 + 0.5)$ cups. A baker triples the recipe. Which expression best shows the distributive property being applied?

☐ A. $3 \times 2.5 = 7.5$

☐ B. $3(2 + 0.5)$

☐ C. $3(2) + 3(0.5)$

☐ D. 7.5 cups total

15) An online store charges \$9.99 per item plus a fixed shipping cost of \$5.99. If the total order is \$54.95, how many items were ordered? Which equation is correct?

☐ A. $5.99x + 9.99 = 54.95$

☐ B. $9.99 + 5.99x = 54.95$

☐ C. $9.99x + 5.99 = 54.95$

☐ D. $x(9.99 + 5.99) = 54.95$



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1) Convert 5,000 cubic inches to cubic feet. (Hint: $1 \text{ ft} = 12 \text{ in}$, so $1 \text{ ft}^3 = 1,728 \text{ in}^3$)

☐ A. 2.89 ft^3

☐ C. 3.68 ft^3

☐ B. 3.25 ft^3

☐ D. $8,640 \text{ ft}^3$

2) A student writes $3^5 \cdot 3^2 = 3^{10}$ (multiplying exponents instead of adding). What error did they make?

☐ A. They multiplied the exponents instead of adding them.

☐ C. They ignored the product rule; the correct answer is 3^7 .

☐ B. They multiplied the bases instead of keeping them the same.

☐ D. They forgot to use the exponent of 1 on the base.

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

$$-3x + 8 = 2$$



Subtract 8

$$-3x = -6$$



Divide by -3

$$x = 2$$

☐ A. $x = 1$

☐ C. $x = 3$

☐ B. $x = 2$

☐ D. $x = 4$

4) Which pair of scales would produce drawings of the same size from the same actual object?

☐ A. $1 \text{ cm} : 4 \text{ m}$ and $2 \text{ cm} : 6 \text{ m}$

☐ C. $3 \text{ mm} : 1 \text{ m}$ and $6 \text{ mm} : 3 \text{ m}$

☐ B. $1 \text{ in} : 12 \text{ ft}$ and $1 \text{ in} : 24 \text{ ft}$

☐ D. $\frac{1}{4} \text{ in} : 1 \text{ ft}$ and $\frac{1}{2} \text{ in} : 2 \text{ ft}$



- 5) The image shows repeated groups of chips. How many chips in total?

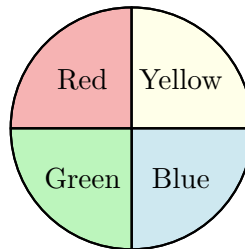


4 groups of 1

What multiplication does this represent?

- ☐ A. $4 \times 1 = 4$ ☐ C. $1 \times 4 = 4$
☐ B. $4 \times 2 = 8$ ☐ D. $2 \times 4 = 8$
- 6) Two sides of a triangle are 6 cm and 14 cm. If the third side is a whole number, how many possible triangles can be drawn?
- ☐ A. 9 ☐ C. 13
☐ B. 11 ☐ D. Infinitely many
- 7) A coin is flipped and a die showing 1, 2, or 3 is rolled. How many favorable outcomes involve Tails and a number less than 3?

- ☐ A. 1 ☐ C. 3
☐ B. 2 ☐ D. 4



8)

A spinner is divided into 4 equal sections: Red, Yellow, Blue, and Green. What is the probability of spinning Red or Green?

- ☐ A. $\frac{1}{4}$ ☐ C. $\frac{1}{3}$
☐ B. $\frac{1}{2}$ ☐ D. $\frac{3}{4}$



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1) Which scenario describes both convenience sampling and voluntary response bias?

- ☐ A. A lottery company randomly draws ticket numbers from a machine
- ☐ B. A store asks customers in line to fill out a quick survey
- ☐ C. A website posts a survey and only interested visitors respond
- ☐ D. Researchers randomly call every 100th number in a phone directory

2) On a map where 2.5 cm represents 50 km, how many kilometers does 1 cm represent?

3) What is $\frac{3}{4}$ of 200?

4) If point $P(1, -3)$ is reflected over the line $y = x$, and then the image is reflected over the x -axis, where does it end up?

- ☐ A. $(1, -3)$
- ☐ B. $(-3, -1)$
- ☐ C. $(3, 1)$
- ☐ D. $(-3, 1)$

5) A survey uses a probability model with outcomes {Agree, Neutral, Disagree}. The model shows $P(\text{Agree}) = \frac{7}{20}$ and $P(\text{Disagree}) = \frac{1}{4}$. Find $P(\text{Neutral})$.

- ☐ A. $\frac{6}{20}$
- ☐ B. $\frac{8}{20}$
- ☐ C. $\frac{9}{20}$
- ☐ D. $\frac{12}{20}$



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- 6) A garden is shaped like an L. It consists of a 6 m by 4 m rectangle and a 3 m by 3 m square connected at a corner. Find the total area of the garden.
- ☐ A. 12 m^2 ☐ C. 33 m^2
☐ B. 21 m^2 ☐ D. 45 m^2
- 7) A probability is 0.4. Which fraction is equivalent and simplified?
- ☐ A. $\frac{1}{4}$ ☐ C. $\frac{1}{3}$
☐ B. $\frac{2}{5}$ ☐ D. $\frac{3}{5}$
- 8) Over how many years will \$1500 at 5.5% simple interest earn \$412.50 in interest?
- ☐ A. 2 years ☐ C. 4 years
☐ B. 3 years ☐ D. 5 years
- 9) Which expression uses the associative property to group the two negative addends first?
- ☐ A. $-6 + 13 + (-7)$ ☐ C. $13 + (-6) + (-7)$
☐ B. $(-6 + (-7)) + 13$ ☐ D. $(13 + (-6)) + (-7)$
- 10) Simplify: $8x + 5y - 3x - 2y + x$
- ☐ A. $6x + 3y$ ☐ C. $4x + 3y$
☐ B. $12x + 3y$ ☐ D. $8x + 5y$
- 11) A rectangular garden has an area of $12m + 20$ square meters. Which could be the dimensions?
- ☐ A. Length 3, width $4m + 5$ ☐ C. Length 2, width $6m + 10$
☐ B. Length 4, width $3m + 5$ ☐ D. Length 5, width $2.4m + 4$



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 B is correct.** (7.SP.6) Getting exactly 2 heads occurred 62 times in 160 trials. Experimental probability $= \frac{62}{160} = 0.3875 \approx 0.39$.
- 2) **Choice A is correct.** (7.EE.4b) Subtract 7: $2x \geq -8$. Divide by 2: $x \geq -4$.
- 3) **Choice C is correct.** (7.NS.1-7.NS.3) Add in order: First, $-1.5 + 3.2 = 1.7$. Then, $1.7 + (-0.8) = 1.7 - 0.8 = 0.9$ points.
- 4) **The correct answer is 55.** (7.NS.1-7.NS.3) To cancel out the loss of -55 , you add its opposite, which is $+55$. Then $-55 + 55 = 0$ (break even).
- 5) **Choice C is correct.** (7.NS.1-7.NS.3) $\frac{4}{7} \div \frac{2}{7} = \frac{4}{7} \times \frac{7}{2} = \frac{4}{2} = 2$.
- 6) **Choice B is correct.** (7.NS.1-7.NS.3) Density: $\frac{3}{4}$ flowers per inch. Total flowers: $\frac{3}{4} \times 16 = \frac{48}{4} = 12$ flowers.
- 7) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute the negative: $14k - 6 - 5k - 2 = (14k - 5k) + (-6 - 2) = 9k - 8$.
- 8) **The correct answer is \$119.50.** (7.NS.1-7.NS.3) Total spent = $\$42.50 + \$18.25 + \$21.00 = \81.75 . Balance after purchases: $\$125.75 - \$81.75 = \$44.00$. Final balance after deposit: $\$44.00 + \$75.50 = \$119.50$.
- 9) **The correct answer is 0.000025.** (7.NS.1-7.NS.3) Move decimal 5 places left: $2.5 \rightarrow 0.000025$.
- 10) **Choice A is correct.** (7.EE.1-7.EE.2) Quotient rule: $\frac{n^9}{n^4} = n^{9-4} = n^5$.
- 11) **Choice C is correct.** (7.EE.3-7.EE.4) Balance: $3x = 24$. Divide by 3: $x = 8$.
- 12) **Choice A is correct.** (7.EE.3-7.EE.4) Add 6: $4x = 16$. Divide by 4: $x = 4$. Check: $4(4) - 6 = 16 - 6 = 10$ ✓.
- 13) **Choice C is correct.** (7.NS.2d) Divide $5 \div 9 = 0.555\ldots = 0.\overline{5}$. The denominator $9 = 3^2$ produces a repeating decimal.
- 14) **Choice C is correct.** (7.EE.1-7.EE.2) The distributive property says $3(2 + 0.5) = 3(2) + 3(0.5)$. Choice C shows this explicitly: we multiply 3 by each part separately ($3 \times 2 = 6$ cups, $3 \times 0.5 = 1.5$ cups), then add: $6 + 1.5 = 7.5$ cups. This form reveals how multiplication distributes across each ingredient measure.
- 15) **Choice C is correct.** (7.EE.4a) Each item costs \$9.99 and shipping is \$5.99 (fixed). Equation: $9.99x + 5.99 = 54.95$.
- 16) **Choice C is correct.** (7.EE.4a) Distribute both sides: $4(2x) + 4(1) = 3(x) + 3(8) \Rightarrow 8x + 4 = 3x + 24$. Subtract $3x$: $5x + 4 = 24$. Subtract 4: $5x = 20$. Divide by 5: $x = 4$. Verify: $4(2 \cdot 4 + 1) = 4(9) = 36$ and $3(4 + 8) = 3(12) = 36$. ✓
- 17) **Choice B is correct.** (7.NS.2) $-\frac{1}{2} \times 10 = \frac{-10}{2} = -5$. Negative times positive is negative.
- 18) **Choice B is correct.** (7.NS.1-7.NS.3) $\sqrt{144} = 12$ and $\sqrt{64} = 8$, so $12 - 8 = 4$.
- 19) **Choice B is correct.** (7.SP.3) Volatility is measured by range. Location 1: $\$2.90 - \$2.10 = \$0.80$. Location 2: $\$3.20 - \$2.00 = \$1.20$. Larger range indicates more volatility.
- 20) **Choice A is correct.** (7.SP.5-7.SP.8) Since all probabilities sum to 1: $P(Z) = 1 - 0.45 - 0.35 = 0.2$.
- 21) **Choice D is correct.** (7.RP.3) Commission = commission rate $\times$ sales = $0.025 \times 400,000 = \$10,000$.
- 22) **The correct answer is A, C.** (7.NS.1b) A: $-7 + 4 = -3$ ✓ (subtract absolute values: $7 - 4 = 3$, keep negative sign). C: $6 + (-6) = 0$ ✓ (opposites sum to zero). B: $-7 + 4 = -3$, not -11 . D: $5 + (-2) = 3$, not 7.
- 23) **Choice B is correct.** (7.SP.1-7.SP.4) Sum: $148 + 149 + 150 + 152 + 154 + 156 + 158 + 161 + 163 + 165 + 167 + 169 + 170 + 172 + 174 = 2388$. Mean = $2388/15 = 159.2 \approx 159$.
- 24) **Choice D is correct.** (7.RP.1-7.RP.3) Divide both 12 and 8 by their GCD, which is 4: $12 \div 4 = 3$ and $8 \div 4 = 2$. So the simplest form is $3 : 2$.
- 25) **Choice D is correct.** (7.G.4-7.G.6) Each rectangle: $5 \times 3 = 15 \text{ m}^2$. Three rectangles: $15 \times 3 = 45 \text{ m}^2$.
- 26) **Choice B is correct.** (7.G.4-7.G.6) $V = 2.5 \times 4 \times 8 = 80 \text{ m}^3$.
- 27) **Choice C is correct.** (7.G.1-7.G.5) By Triangle Inequality, $|9 - 6| < c < 9 + 6$ gives $3 < c < 15$. Choice C (16 cm) exceeds 15, so it fails. A: $5 > 3$ ✓. B: $10 < 15$ ✓. D: $8 < 15$ ✓.
- 28) **Choice C is correct.** (7.G.4-7.G.6) You can draw a radius from the center to any point on the circle, so there are infinitely many radii.
- 29) **Choice B is correct.** (7.G.1-7.G.5) Both triangles have identical side lengths: 3, 4, and 5. The SSS (Side-Side-Side) condition guarantees congruence.



Hi, Detail Champion!

◇ In Grade 7, small details can change an entire answer: a negative sign, a decimal place, a unit, an exponent, or an inequality symbol. ◇

★ **Remember this:** You practiced noticing those details. That is a serious test skill, and it gets better with every careful review. This version gave you 8 opportunities to rehearse test-day habits. ★

Detail Checks

- **Signs:** Circle negatives before simplifying.
- **Symbols:** Read inequality signs carefully.
- **Decimals:** Line up place values.
- **Units:** Match the unit the question asks for.

Grade 7 test-day tip: Use the final minute on each section for a detail scan, not a full redo.

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

Jay Daie

Your Detail-Check Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **8** 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:

8 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer 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



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 concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

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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