

7 Louisiana LEAP

Grade 7 Math Practice Tests



ONLINE

7 PRINTED TESTS + 2 ONLINE TESTS



**Standards Aligned Problem Solving
For Comprehensive Assessment Programs**



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 seven 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, 280 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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1) Solve: $5x - 2 \geq 18$

☐ A. $x \geq 4$

☐ C. $x \geq 20$

☐ B. $x \leq 4$

☐ D. $x > 4$

2) What is the side length of a square with area 121 square feet?

☐ A. 10 feet

☐ C. 12 feet

☐ B. 11 feet

☐ D. 13 feet

3) What is $-\frac{2}{5} \times (-10)$?

☐ A. -4

☐ C. 4

☐ B. -20

☐ D. 20

4) A rental car company charges \$40 per day plus a 15% insurance premium. If a customer rents for 5 days, what is the total rental cost?

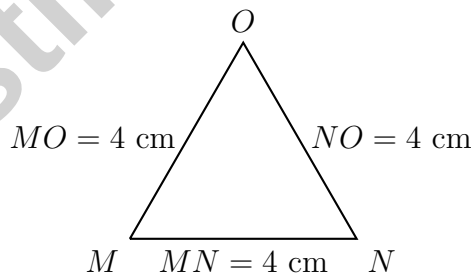
☐ A. \$200

☐ C. \$250

☐ B. \$280

☐ D. \$230

5)



Triangle MNO has all three sides equal: $MN = NO = OM = 4$ cm. What are the measures of all angles?

☐ A. $60^\circ, 60^\circ, 60^\circ$

☐ D. Cannot be determined without more info

☐ B. $45^\circ, 45^\circ, 90^\circ$

☐ C. $30^\circ, 60^\circ, 90^\circ$



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6) A bank account has a balance of $-\$75$ (overdrawn). To bring it to zero, you must deposit:

- ☐ A. \$75
☐ B. \$150

- ☐ C. $-\$75$
☐ D. \$0

7) A diver begins at sea level (0 meters) and descends 25 meters. Then she ascends 8 meters. What is her final depth below sea level? Write your answer as an integer.

8) What is $-11 + 14$?

- ☐ A. 25
☐ B. -25

- ☐ C. -3
☐ D. 3

9) Which of the following is NOT a like term with $6xy$?

- ☐ A. $-4xy$
☐ B. $9yx$

- ☐ C. $2xy^2$
☐ D. $10xy$

10) A rope of length $8x + 12$ feet is cut into two pieces. If one piece has length $4x + 6$ feet, what is the length of the other piece?

- ☐ A. $4x + 6$
☐ B. $4x - 6$

- ☐ C. $12x + 18$
☐ D. $4x$



- 11) A triangular prism has a right triangular base with legs 6 in and 8 in (hypotenuse 10 in). The prism is 12 in long. What is the surface area?

☐ A. 216 in^2 ☐ C. 336 in^2
☐ B. 288 in^2 ☐ D. 420 in^2

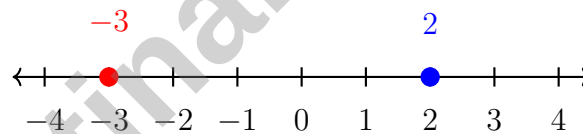
- 12) Evaluate $\frac{2x-3}{5}$ when $x = 4$.

☐ A. $\frac{1}{5}$ ☐ C. 1
☐ B. 2 ☐ D. $\frac{11}{5}$

- 13) To simulate the compound event of flipping a coin and rolling a die, how many equally likely outcomes should be in the sample space?

☐ A. 6 ☐ C. 12
☐ B. 8 ☐ D. 18

- 14) Which number is further from zero on the number line?



☐ A. 2 is further ☐ C. They are equal distance
☐ B. -3 is further ☐ D. Cannot be determined

- 15) Compare: $24 \div (-8)$ and $(-24) \div 8$.

☐ A. They are equal ☐ C. The second is greater
☐ B. The first is greater ☐ D. They are opposites



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1) Which row correctly shows the sign rules for multiplication?

Operation	Example	Result
A. $(+) \times (+)$	5×3	8
B. $(-) \times (-)$	$(-4) \times (-2)$	-8
C. $(+) \times (-)$	$6 \times (-2)$	-12
D. $(-) \times (+)$	$(-7) \times 3$	21

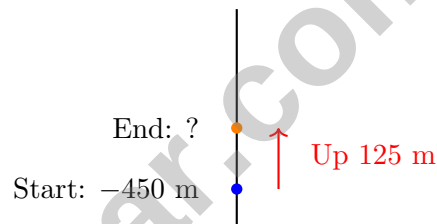
☐ A. Row A

☐ C. Row C

☐ B. Row B

☐ D. Row D

2) A submarine is at a depth of -450 meters. It ascends (moves up) 125 meters. What is its new depth?



3) A histogram displays the number of plants in gardens across two neighborhoods. North Side: concentrated at 15–25 plants. South Side: concentrated at 25–35 plants. Both neighborhoods show similar spread. What inference can be made?

☐ A. South Side gardens have approximately 10 more plants on average

☐ C. Both neighborhoods have identical gardens

☐ B. North Side is better for gardening

☐ D. Gardening is equally popular in both areas



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- 4) The stem-and-leaf plot shows quiz scores from two classes:

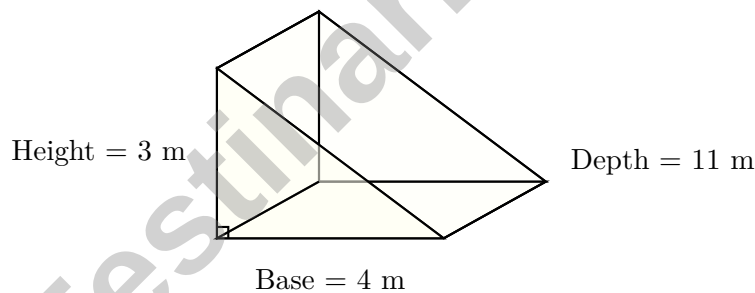
Class A	Stem	Class B
9, 5, 1	7	2, 4, 8
8, 6	8	1, 3, 5, 7
	9	0, 2, 6

Back-to-back Stem-and-Leaf Plot

Which class has the higher median?

- ☐ A. Class A
☐ B. Class B
☐ C. Both have equal medians
☐ D. Cannot be determined
- 5) A composite figure is made of a rectangle (8 ft by 5 ft) with a square (3 ft by 3 ft) attached to one side. What is the total area?

- ☐ A. 40 ft²
☐ B. 45 ft²
☐ C. 49 ft²
☐ D. 56 ft²



6)

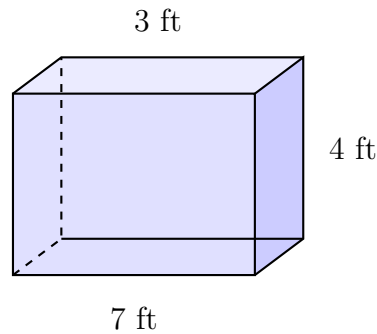
A right triangular prism has a right-triangular base with legs 4 m and 3 m and a depth of 11 m. What is the volume?

- ☐ A. 18 m³
☐ B. 36 m³
☐ C. 66 m³
☐ D. 132 m³



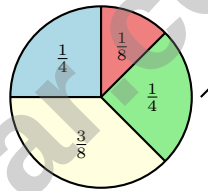
- 1) A circle graph shows the budget allocation for a school: Athletics 20%, Academics 50%, Support Services 20%, Other 10%. If the total budget is \$500,000, how much is allocated to Academics?
- ☐ A. \$50,000 ☐ C. \$200,000
☐ B. \$100,000 ☐ D. \$250,000
- 2) A store sells two brands of cereal. Brand X costs \$4.00 for 16 oz. Brand Y costs \$3.60 for 12 oz. Which brand has the lower unit cost per ounce?
- ☐ A. Brand X at \$0.30 per oz ☐ C. Brand X at \$0.25 per oz
☐ B. Brand Y at \$0.30 per oz ☐ D. Brand Y at \$0.25 per oz
- 3) Which scenario earns the most compound interest over 2 years?
- ☐ A. \$1,000 at 3% ☐ C. \$800 at 8%
☐ B. \$1,000 at 5% ☐ D. \$500 at 10%
- 4) A basketball player's scoring average was 18 points per game. After training, it increased to 27 points per game. What is the percent increase?
- ☐ A. 33.3% ☐ C. 66.7%
☐ B. 9% ☐ D. 50%





5)

This isometric view shows a rectangular prism with dimensions $7 \text{ ft} \times 4 \text{ ft} \times 3 \text{ ft}$. Calculate the surface area.

☐ A. 98 ft^2 ☐ B. 122 ft^2 ☐ C. 166 ft^2 ☐ D. 336 ft^2 

6)

A spinner has sections with the probabilities shown. If the spinner is spun 400 times, approximately how many times should you expect to land on a section with probability $\frac{3}{8}$?

☐ A. 50 times☐ B. 100 times☐ C. 150 times☐ D. 200 times

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**Louisiana Educational Assessment Program 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 Educational Assessment Program practice test.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (7.EE.4b) Add 2: $5x \geq 20$. Divide by 5: $x \geq 4$.
- 2) **Choice B is correct.** (7.NS.1-7.NS.3) $\sqrt{121} = 11$ feet since $11 \times 11 = 121$.
- 3) **Choice C is correct.** (7.NS.2) $-\frac{2}{5} \times (-10) = \frac{2 \times 10}{5} = \frac{20}{5} = 4$. Negative times negative is positive.
- 4) **Choice D is correct.** (7.RP.3) Daily cost = $40 \times 5 = \$200$. Insurance premium = $0.15 \times 200 = \$30$. Total = $200 + 30 = \$230$.
- 5) **Choice A is correct.** (7.G.1-7.G.5) An equilateral triangle has all sides and all angles equal. Since the angle sum is 180° and all three angles are equal, each angle is $180^\circ \div 3 = 60^\circ$.
- 6) **Choice A is correct.** (7.NS.1-7.NS.3) To cancel out a debt of -75 , you must add $+75$. Their sum is zero: $-75 + 75 = 0$.
- 7) **The correct answer is -17 .** (7.NS.1-7.NS.3) After descending: $0 - 25 = -25$. After ascending 8 meters: $-25 - (-8) = -25 + 8 = -17$. She is 17 meters below sea level.
- 8) **Choice D is correct.** (7.NS.1b) Subtract absolute values: $|14| - |-11| = 14 - 11 = 3$. Since $14 > |-11|$ and 14 is positive, the answer is 3.
- 9) **Choice C is correct.** (7.EE.1) Like terms must have the same variables with the same exponents. $2xy^2$ has x^1y^2 , while $6xy$ has x^1y^1 . The exponents on y differ, so they are not like terms. Options A and D are clearly like $6xy$. Option B, $9yx$, equals $9xy$ by commutativity, so it is also a like term with $6xy$.
- 10) **Choice A is correct.** (7.EE.1-7.EE.2) $(8x + 12) - (4x + 6) = 4x + 6$. Note: $8x + 12 = 2(4x + 6)$, so the pieces are equal.
- 11) **Choice C is correct.** (7.G.4-7.G.6) Two triangular bases: $2 \times \frac{1}{2}(6)(8) = 48 \text{ in}^2$. Three rectangular faces have area length $\times$ side: $6 \times 12 = 72$, $8 \times 12 = 96$, and $10 \times 12 = 120 \text{ in}^2$. Total: $48 + (72 + 96 + 120) = 48 + 288 = 336 \text{ in}^2$.
- 12) **Choice C is correct.** (7.EE.1-7.EE.2) Substitute: $\frac{2(4)-3}{5} = \frac{8-3}{5} = \frac{5}{5} = 1$.
- 13) **Choice C is correct.** (7.SP.5-7.SP.8) Coin outcomes: 2 (heads, tails). Die outcomes: 6. Total: $2 \times 6 = 12$ outcomes.
- 14) **Choice B is correct.** (7.NS.1-7.NS.3) Distance from zero: $|-3| = 3$ and $|2| = 2$. Since $3 > 2$, -3 is further from zero.
- 15) **Choice A is correct.** (7.NS.1-7.NS.3) $24 \div (-8) = -3$ and $(-24) \div 8 = -3$. Both quotients are the same.
- 16) **Choice A is correct.** (7.NS.1-7.NS.3) Loss: $-2.25 \times 8 = -18$ dollars.
- 17) **The correct answer is 6.** (7.RP.1-7.RP.3) Unit rate = $18 \div 3 = 6$ loaves per hour.
- 18) **Choice A is correct.** (7.EE.3-7.EE.4) Equation: $25 + 0.10t = 47$. Subtract 25: $0.10t = 22$. Divide by 0.10: $t = 220$.
- 19) **Choice A is correct.** (7.G.1-7.G.5) Using similar pyramids, the ratio of heights is $\frac{4}{12} = \frac{1}{3}$. The cross-section's dimensions scale by this ratio: $8 \times \frac{1}{3} = \frac{8}{3} \text{ cm}$ and $6 \times \frac{1}{3} = 2 \text{ cm}$.
- 20) **Choice A is correct.** (7.G.1-7.G.5) Let angles be $2k$ and $7k$. Then $2k + 7k = 180^\circ$, so $9k = 180^\circ$ and $k = 20^\circ$. Supplement is $7(20) = 140^\circ$.
- 21) **Choice B is correct.** (7.G.1-7.G.5) The scale factor is $\frac{28}{20} = 1.4$. We can verify: $10 \times 1.4 = 14 \checkmark$
- 22) **The correct answer is A,B.** (7.RP.3) Choice A: 20% of $500 = 0.20 \times 500 = 100$. $\checkmark$ Choice B: 50% of $500 = 0.50 \times 500 = 250$. $\checkmark$ Choice C: 10% of $500 = 50$, not 40 . $\times$ Choice D: 15% of $500 = 75$, not 80 . $\times$
- 23) **Choice A is correct.** (7.SP.1-7.SP.4) Airport jobs may have specific wage structures, making them unrepresentative of all city workers.
- 24) **Choice D is correct.** (7.RP.3) Month 1 to 2: $(\$110 - \$100) \div \$100 = 0.10 = 10\%$ growth. Month 2 to 3: $(\$121 - \$110) \div \$110 \approx 0.10 = 10\%$ growth. This illustrates the difference between simple interest (fixed dollar amount like $\$10$ each month) and compound growth (percentage-based: 10% of the balance each month).
- 25) **Choice C is correct.** (7.NS.2d) Divide $21 \div 40 = 0.525$. Since $40 = 2^3 \times 5$, this terminates.
- 26) **Choice B is correct.** (7.NS.1-7.NS.3) $6,800,000,000 = 6.8 \times 10^9$. Decimal moves 9 places left.
- 27) **Choice A is correct.** (7.EE.1-7.EE.2) $\text{gcd}(6, 9) = 3$, so $6x - 9 = 3(2x - 3)$ by factoring out the GCF.
- 28) **Choice A is correct.** (7.EE.4a) One book at $\$12$ plus four pens at $\$2$ each: $12 + 2(4) = 12 + 8 = 20$.
- 29) **Choice B is correct.** (7.EE.4a) Distribute: $6x - 4 = 14$. Add 4: $6x = 18$. Divide by 6: $x = 3$.
- 30) **Choice C is correct.** (7.G.1-7.G.5) Scale $1 : 3$ means the enlargement is 3 times the original: $4 \times 3 = 12$ inches.



Hi, Math Communicator!

◇ Grade 7 math is not only about getting a number. It is about explaining relationships and making your reasoning visible. ◇

★ **Remember this:** When you show steps, label diagrams, and write clear answers, you are joining the conversation that math is trying to have. You practiced across 7 full Grade 7 practice tests, and that repeated effort matters. ★

Communication Skills

- **Use Words:** Explain what the answer means.
- **Use Symbols:** Keep equations accurate.
- **Use Diagrams:** Show relationships visually.
- **Use Units:** Connect math to context.

Grade 7 test-day tip: For open-ended questions, answer in a complete thought: value, unit, and reason.

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

Jay Daie

Your Math Communication Coach

Practice Today. Succeed Tomorrow!

This book includes **7** 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:

7 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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