

10

Louisiana LEAP

GRADE
7
MATH

PRACTICE TESTS

Standards Aligned Problem
Solving For Comprehensive
Assessment Programs



10 PRINTED TESTS

Realistic practice to build
confidence and mastery



2 ONLINE TESTS

Extra practice for
continued success



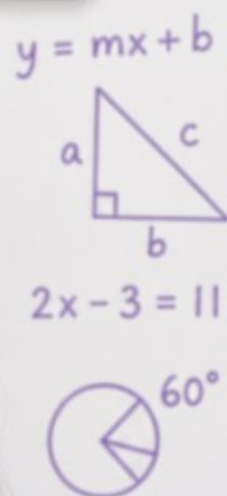
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step
solutions



FOCUSED & EFFECTIVE

Target key math skills
with purposeful practice



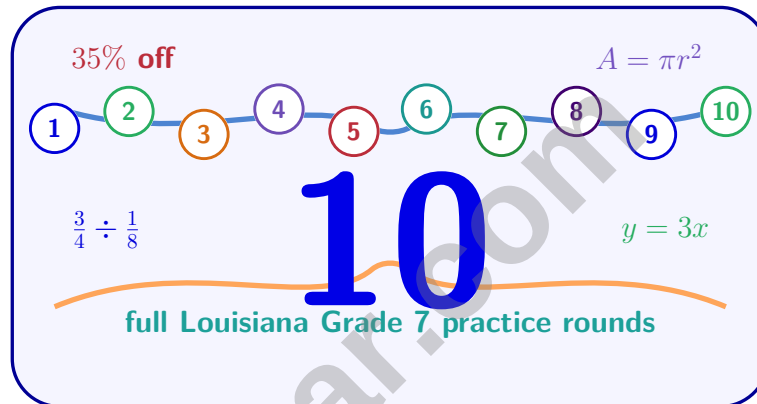
10 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE ★ REVIEW ★ SUCCEED

10 Louisiana LEAP Grade 7 Math Practice Tests

Louisiana Grade 7 LEAP Practice for clear practice with rates, percents, rational numbers, expressions, geometry, statistics, and probability



Ten 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



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, Louisiana Grade 7 Problem Solver!

Ten focused rounds for sharper Louisiana LEAP math thinking

This book gives you ten 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 ten-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?

Ten Louisiana LEAP tests, 400 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 7–9	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Test 10	A final Louisiana round to show growth across the whole book.
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

Table of Contents

★ Practice Test 1	_____	11
★ Practice Test 2	_____	25
★ Practice Test 3	_____	40
★ Practice Test 4	_____	55
★ Practice Test 5	_____	70
★ Practice Test 6	_____	84
★ Practice Test 7	_____	97
★ Practice Test 8	_____	112
★ Practice Test 9	_____	126
★ Practice Test 10	_____	141
Practice Test Answer Keys	_____	155
Practice Test Answers and Explanations	_____	161

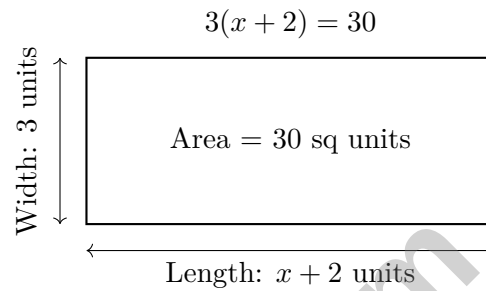
- 1) Three events have probabilities: Event A = $\frac{1}{2}$, Event B = 0.6, Event C = 55%. Which event is most likely?

☐ A. Event A

☐ C. Event C

☐ B. Event B

☐ D. Events A and C are equally likely



2)

A rectangle has width 3 and length $x + 2$. If the area is 30 square units, what is the length?

☐ A. $x + 2 = 8$

☐ C. $x + 2 = 12$

☐ B. $x + 2 = 10$

☐ D. $x + 2 = 15$

- 3) A circular clock face has circumference 88 cm. Using $\pi \approx \frac{22}{7}$, what is the radius of the clock?



Scan me!
For more practice
& answers

Standard: 83,500

Scientific: 8.35×10

4)

What is the missing exponent?

☐ A. 3

☐ C. 5

☐ B. 4

☐ D. 6

5) A student claims that $x + x + x + 5 = 3x + 5$ and $x(3 + 5) = 3x + 5$. Which statement is true?

☐ A. Both claims are correct

☐ C. Only the second claim is correct

☐ B. Only the first claim is correct

☐ D. Neither claim is correct

6) A die is rolled to simulate an event with probability $\frac{1}{3}$. Which outcomes on the die could represent a success?

☐ A. Rolling a 1 or 2

☐ C. Rolling a 1, 2, 3, or 4

☐ B. Rolling a 1 or 2 or 3

☐ D. Rolling a 1, 2, 3, 4, or 5

7) A line plot shows the number of hours a student practices violin each week over 10 weeks: 1, 2, 2, 2, 3, 3, 3, 3, 4, 5. Which measure best describes the typical practice time?

☐ A. The mean (average)

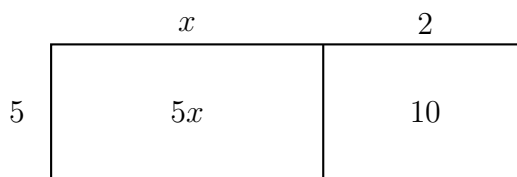
☐ C. The median

☐ B. The mode

☐ D. The range



- 8) A jar contains colored balls: Red, Blue, and Green. A marble is drawn, replaced, and then a second marble is drawn. Which statement about this compound experiment is FALSE?
- ☐ A. With replacement, the second draw has the same outcomes as the first
- ☐ B. The total sample space has 9 outcomes
- ☐ C. The probability of drawing Blue on both draws is $\frac{2}{9}$
- ☐ D. Without replacement, there would be fewer total outcomes
- 9) Two number cubes are rolled. What is the probability of rolling doubles (both dice show the same number)?
- ☐ A. $\frac{1}{6}$
- ☐ B. $\frac{7}{36}$
- ☐ C. $\frac{1}{12}$
- ☐ D. $\frac{5}{36}$
- 10) A dart was thrown at a target 400 times. It hit the bullseye 92 times. What is the experimental probability of hitting the bullseye?
- ☐ A. 0.20
- ☐ B. 0.23
- ☐ C. 0.25
- ☐ D. 0.30
- 11) A clock was estimated to cost \$18 but actually cost \$24. What is the percent error?
- ☐ A. 25%
- ☐ B. 33.3%
- ☐ C. 75%
- ☐ D. 6%
- 12) The rectangle below is divided into two regions to model $5(x + 2)$. What is the total area?



- ☐ A. $5x + 10$
- ☐ B. $5x + 2$
- ☐ C. $7x$
- ☐ D. $x + 7$



Scan me!
For more practice
& answers

1) A student predicted she would solve 28 math problems correctly, but she actually solved 32 correctly. What is the percent error in her prediction?

☐ A. 14.3%☐ C. 4%☐ B. 87.5%☐ D. 12.5%

2) A rectangular prism has length $\frac{1}{2}$ m, width $\frac{1}{3}$ m, and height 2 m. What is the volume?

☐ A. 1 m^3 ☐ C. $\frac{1}{3} \text{ m}^3$ ☐ B. $\frac{2}{3} \text{ m}^3$ ☐ D. $\frac{1}{6} \text{ m}^3$

3) A student draws a card from a standard deck. The probability of drawing a heart is $\frac{1}{4}$. What is this as a percent?

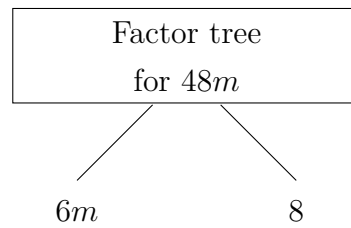
☐ A. 4%☐ C. 25%☐ B. 14%☐ D. 40%

4) Expand and simplify: $5(x - 2) + 3(x + 4)$

☐ A. $8x + 22$ ☐ C. $5x + 7$ ☐ B. $8x + 12$ ☐ D. $8x + 2$

5) Simplify: $\frac{3}{5}x + \frac{2}{5}x$

☐ A. x ☐ C. $\frac{6}{5}x$ ☐ B. $\frac{5}{10}x$ ☐ D. $\frac{1}{5}x$ 



6)

If a factor tree shows that $48m = 6m \times 8$, then what is the GCF of $48m$ and 24?

☐ A. 6☐ C. 24☐ B. 8☐ D. 12

- 7) A principal of \$1500 earns \$180 in simple interest at 6% annually. For how many years was the money invested?

- 8) A rectangular prism has dimensions 9 in $\times$ 3 in $\times$ 6 in. What is the surface area?

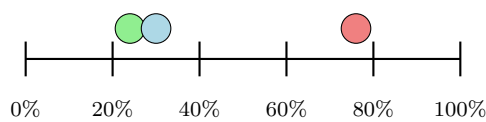
☐ A. 54 in²☐ C. 198 in²☐ B. 108 in²☐ D. 324 in²

- 9) A sector measuring 162° represents what percent of the circle?

☐ A. 25%☐ C. 45%☐ B. 40%☐ D. 50%

Scan me!
For more practice
& answers

Estimated Probabilities



1)

Three simulation estimates are plotted on the number line: 0.24 (green), 0.38 (blue), and 0.76 (red). If the true theoretical probability is 0.25, which estimate has the smallest error?

- ☐ A. Green at 0.24 ☐ C. Red at 0.76
☐ B. Blue at 0.38 ☐ D. All three have equal error

2) A thumbtack was dropped 80 times and landed point-up 48 times. What is the experimental probability that a thumbtack lands point-up?

3) If a sector measures 198° , what percent of the circle does it represent?

- ☐ A. 45% ☐ C. 55%
☐ B. 50% ☐ D. 60%

4) A teacher wants to estimate the average amount of time students in her class spend on homework. She surveys students who stayed after school for tutoring. Why is this sample biased?

- ☐ A. Students getting tutoring likely spend more time on homework ☐ C. The question is leading
☐ B. The sample is too small ☐ D. It is a convenience sample only



Scan me!
For more practice
& answers

5) What is the value of $(-3)^2$?

☐ A. -9

☐ C. 9

☐ B. 6

☐ D. -6

\$25 base	\$15 per hour $\times h$
-----------	--------------------------

6) Total cost C

An electrician's fee is shown as a bar diagram. The fixed fee is \$25 and the hourly rate is \$15 per hour. Which equation represents the total cost C for h hours?

☐ A. $C = 15h + 25$

☐ C. $C = 25 + 15$

☐ B. $C = 25h + 15$

☐ D. $C = (25 + 15)h$

7) What is x if $3(x - 2) = 9$?

☐ A. $x = 2$

☐ C. $x = 5$

☐ B. $x = 3$

☐ D. $x = 6$

8) A probability model has outcomes $\{M, N, O, P\}$ with probabilities 0.15, 0.30, 0.35, and x . Find x .



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.



Scan me!
For more practice
& answers

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (7.SP.5-7.SP.8) $A = 0.5$, $B = 0.6$, $C = 0.55$. Event B has the highest probability ($0.6 > 0.55 > 0.5$).
- 2) **Choice B is correct.** (7.EE.4a) Area: $3(x+2) = 30$. Divide by 3: $x+2 = 10$. (So length is 10 units; if needed, $x = 8$.)
- 3) **The correct answer is 14.** (7.G.4-7.G.6) $C = 2\pi r \Rightarrow 88 = 2 \times \frac{22}{7} \times r \Rightarrow 88 = \frac{44}{7}r \Rightarrow r = 88 \times \frac{7}{44} = 14$ cm.
- 4) **Choice B is correct.** (7.NS.1-7.NS.3) $83,500 = 8.35 \times 10,000 = 8.35 \times 10^4$. Decimal moved 4 places left.
- 5) **Choice B is correct.** (7.EE.1-7.EE.2) The first: $x + x + x + 5 = 3x + 5$ is correct. The second is wrong: $x(3+5) = 8x \neq 3x + 5$. The 5 must be distributed separately: $x(3) + 5 \neq x(3+5)$.
- 6) **Choice A is correct.** (7.SP.5-7.SP.8) $\frac{2}{6} = \frac{1}{3}$. Rolling a 1 or 2 represents 2 favorable outcomes out of 6 equally likely outcomes.
- 7) **Choice B is correct.** (7.SP.1-7.SP.4) The mode is 3 hours (appears 4 times), which best represents the typical week's practice. The mode is most useful for identifying the most common value.
- 8) **Choice C is correct.** (7.SP.5-7.SP.8) With 3 colors and replacement: $3 \times 3 = 9$ outcomes. Probability of Blue twice (BB) is $\frac{1}{9}$, not $\frac{2}{9}$. Statements A, B, and D are all true.
- 9) **Choice A is correct.** (7.SP.5-7.SP.8) Doubles: (1,1), (2,2), (3,3), (4,4), (5,5), (6,6) = 6 outcomes out of 36. Probability = $\frac{6}{36} = \frac{1}{6}$.
- 10) **Choice B is correct.** (7.SP.6) Experimental probability = $\frac{92}{400} = 0.23$. Distractors represent nearby decimal values that students might compute incorrectly.
- 11) **Choice A is correct.** (7.RP.3) Percent error = $\frac{|18-24|}{24} \times 100\% = \frac{6}{24} \times 100\% = 25\%$.
- 12) **Choice A is correct.** (7.EE.1-7.EE.2) The rectangle shows two parts: $5x$ and 10 . Total: $5x + 10$.
- 13) **Choice D is correct.** (7.RP.3) To verify a simple interest calculation, substitute all values back into $I = Prt$ (or $A = P + I$) to check that the result is correct. This is a standard verification method in math.
- 14) **Choice A is correct.** (7.NS.1-7.NS.3) Subtracting a negative becomes addition: $-2 - (-6) = -2 + 6 = 4$.
- 15) **Choice D is correct.** (7.RP.1-7.RP.3) Model length in meters: $200 \div 200 = 1$ meter = 100 cm.
- 16) **Choice C is correct.** (7.NS.1b) Combine: $-3 + (-2) = -5$, then $-5 + 8 = 3$. The positive number outweighs the combined negatives.
- 17) **Choice A is correct.** (7.EE.1) Combine: $(11 - 6 + 2)a = 7a$.
- 18) **Choice A is correct.** (7.EE.1-7.EE.2) The GCF of 10 and 15 is 5. Check: $5(2x) + 5(3) = 10x + 15$. Correct.
- 19) **Choice C is correct.** (7.SP.1-7.SP.4) 15% of 320 = $0.15 \times 320 = 48$ households.
- 20) **The correct answer is A,C.** (7.SP.3) A is correct: both groups have median = 30. C is correct: Group Beta's max is 55 vs. Alpha's 50. B is wrong: Group Beta's range ($55-15=40$) exceeds Group Alpha's ($50-10=40$), and IQR is similar, so they have comparable variability. D is wrong: Alpha's min (10) is less than Beta's (15).
- 21) **Choice D is correct.** (7.RP.3) 150% of 2 is $1.50 \times 2 = 3$ cups.
- 22) **Choice D is correct.** (7.RP.3) Discount = $0.35 \times 200 = \$70$. Sale price = $200 - 70 = \$130$.
- 23) **Choice B is correct.** (7.EE.4b) Add 3: $x < 7$. The boundary is at 7 (open circle, not included), and solutions extend left (all values less than 7).
- 24) **Choice D is correct.** (7.RP.1-7.RP.3) The unit rate is $12 \div 5 = 2.4$. So the equation is $y = 2.4x$.
- 25) **Choice C is correct.** (7.RP.3) Rent = $50\% \times \$1,200 = 0.50 \times 1200 = \600 .
- 26) **Choice A is correct.** (7.NS.1-7.NS.3) Difference: $\frac{5}{6} - \frac{2}{3} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6}$.
- 27) **Choice C is correct.** (7.NS.1-7.NS.3) Negative divided by negative is positive: $-\frac{7}{8} \times (-\frac{4}{3}) = \frac{28}{24} = \frac{7}{6}$.
- 28) **Choice A is correct.** (7.NS.1-7.NS.3) $2.5 \times \frac{3}{5} = \frac{2.5 \times 3}{5} = \frac{7.5}{5} = 1.5$ cups.
- 29) **Choice B is correct.** (7.NS.1-7.NS.3) Q1 loss: $-\$450$. Q2 loss: $-\$225$ (half of Q1). Q3: $\$0$ (break even). Net: $-\$450 - \$225 + 0 = -\$675$.
- 30) **The correct answer is 188.4.** (7.G.4-7.G.6) Radius is half the diameter: $r = 3$ cm. Lateral area = $2\pi rh \approx 2 \times 3.14 \times 3 \times 10 = 188.4$ cm².



Scan me!
For more practice
& answers

Hi, Math Hero!

◇ This full-length book gave you ten complete Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. You showed up for Grade 7 practice again and again. That is what real growth looks like: steady effort, honest review, and a willingness to try. ◇

★ **Remember this:** A math hero is not someone who never misses a question. A math hero learns from the miss and comes back stronger. ★

Hero Habits

- **Courage:** You try problems that are not automatic.
- **Honesty:** You review what needs work.
- **Patience:** You let skills grow over time.
- **Pride:** You recognize the effort you gave.

Grade 7 test-day tip: Save one solved problem you are proud of. Looking back at progress helps motivation stay strong.

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

Jay Daie

Your Math Hero Guide

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 10 full-length Math practice tests and 2 extra 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:

10 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
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 EXTRA 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!



VISIT **TESTINAR.COM/MATH7**
FOR MORE PRACTICE TESTS
AND LEARNING RESOURCES.



PRACTICE
REGULARLY



STAY
FOCUSED



SOLVE
CONFIDENTLY



SUCCEED
BRIGHTLY

PRACTICE ★ REVIEW ★ SUCCEED