

# 4

# Louisiana LEAP

## Grade 3

# MATH

## PRACTICE TESTS

Standards-Aligned Practice



### STANDARDS-ALIGNED

Practice to build skills and boost confidence



### 4 FULL-LENGTH TESTS

Realistic questions to prepare for test day



### ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



# 4 Louisiana LEAP Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Four focused 30-question missions for Grade 3 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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# Welcome to the Louisiana Math Launch

Four missions, careful work, and a stronger Grade 3 thinker



Read the mission. Show the work. Check the answer. Launch again.

## To the Grade 3 Mission Leader

This book is a four-mission practice launch for the Louisiana LEAP. Each test gives you a fresh chance to multiply, divide, read graphs, compare fractions, measure, find area, and explain math in a way someone else can follow.

Louisiana has bayous, bridges, music, and busy streets where patterns are everywhere. Good math uses the same habit: pause, check the details, and move forward with a steady plan.

### Notice

Find the numbers, units, and question before choosing a path.

### Model

Draw an array, number line, table, or quick equation.

### Verify

Ask whether your answer fits the story and the unit.

**Launch promise:** I will slow down at the important moments, show the work I can, and use every miss as a clue for the next mission.

# How to Use This Book

A four-mission routine for steady Grade 3 growth

## 1. Warm Up the System

Read the review pages first. Remind your brain how equal groups, fractions, clocks, graphs, and area models work.

## 2. Fly One Mission

Take one complete 30-question test. Keep your work neat enough that you can check it later.

## 3. Review the Flight

Use the answer key, then pause. A wrong answer is useful when you can name what happened.

## 4. Repair and Relaunch

Rework a few missed questions before starting the next test. The repair step is where the score begins to move.

### A Four-Session Plan

<b>Session 1</b>	Take Test 1 and mark the topics that need attention.
<b>Session 2</b>	Take Test 2 and focus on showing every step clearly.
<b>Session 3</b>	Take Test 3 and watch for units, labels, and two-step problems.
<b>Session 4</b>	Take Test 4 and finish with calm, careful checking.

**Best mission habit:** After checking answers, write one sentence: “Next time I will pay attention to \_\_\_\_\_.”



# Test Overview

## What each Grade 3 math mission asks you to do

Each practice test has 30 questions. Across four tests, you will practice the kind of Grade 3 math thinking used on the Louisiana LEAP: reading carefully, choosing a strategy, doing accurate computation, and explaining enough work to make your answer clear.

### Multiple Choice

Look for the best answer. Estimate first when you can, cross out choices that do not fit, and reread the question before you choose.

### Open Response

Write the answer and show the reason. A good Grade 3 response may use a drawing, equation, table, number line, or a few clear words.

### Math Ideas Inside the Four Tests

- multiplication, division, arrays, missing factors, and two-step word problems
- place value, rounding, addition, subtraction, and multiplying by tens
- unit fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shape categories

**What strong LEAP work looks like:** the answer matches the question, the units make sense, and the work is clear enough to check.



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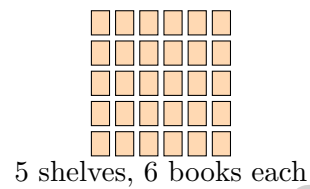
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1) Which situation can be represented by  $12 \div 3$ ?

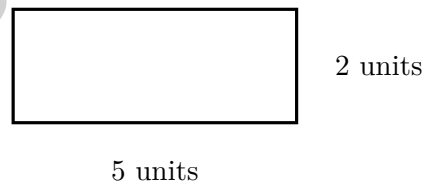
- A. 12 multiply by 3
- B. 3 subtract from 12
- C. How many groups of 3 make 12
- D. 12 items shared equally among 3 groups

2) Below is a rectangular array showing books on shelves. There are 5 shelves with 6 books on each shelf.



How many books are there altogether?

- A. 11
- B. 25
- C. 36
- D. 30
- 3) What is  $48 \div 6$ ?
- A. 7
- B. 10
- C. 9
- D. 8



4)

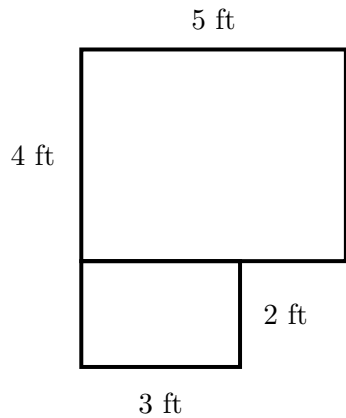
What is the area of this rectangle?

- A. 7 sq units
- B. 10 sq units
- C. 12 sq units
- D. 15 sq units



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- 5) An L-shaped patio is shown with dashed lines dividing it into two rectangles. The first rectangle is 5 ft by 4 ft. The second is 3 ft by 2 ft. What is the total area of the patio?



- A. 26 sq ft                       C. 14 sq ft  
 B. 20 sq ft                       D. 40 sq ft
- 6) How many whole units does the shaded bar show?



- A. 1                                       C. 6  
 B. 3                                       D. 2
- 7) Sam is paving a patio with unit square stepping stones. The patio is 4 units by 7 units. How many stones does he need?
- A. 22 stones                       C. 56 stones  
 B. 11 stones                       D. 28 stones

8) Which list shows unit fractions in order from smallest to largest?

- A.  $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$   
 B.  $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}$

- C.  $\frac{1}{4}, \frac{1}{8}, \frac{1}{2}$   
 D.  $\frac{1}{8}, \frac{1}{2}, \frac{1}{4}$

9)

1 kg	=	? g
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Which measure is equal to 1 kilogram?

- A. 500 g  
 B. 1000 g  
 C. 1500 g  
 D. 2000 g

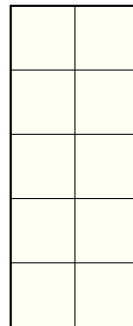
10) A square frame is made of wood. Each side is 5 inches. If you wanted to cover the area inside the frame with paper, how much paper would you need?

- A. 10 square inches  
 B. 20 square inches  
 C. 25 square inches  
 D. 5 square inches

11) Which comparison is true?

- A.  $\frac{3}{4} < \frac{3}{6}$   
 B.  $\frac{3}{4} = \frac{3}{6}$   
 C.  $\frac{3}{4} > \frac{3}{6}$  (same numerator,  $4 < 6$ )  
 D.  $\frac{3}{6} > \frac{3}{4}$  ( $6 > 4$ , so sixths are bigger)

12)



Count the unit squares in this tall rectangle. What is its area?

- A. 7 square units  
 B. 9 square units  
 C. 10 square units  
 D. 12 square units



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1) Complete:  $\square \times 7 = 63$

A. 7

C. 10

B. 8

D. 9

2) A number line from 0 to 1 has 4 tick marks dividing it equally (not counting 0 and 1). Each part is  $\frac{1}{5}$ . What is true?

A. There are 4 equal parts

C. There are 6 equal parts

B. There are 5 equal parts

D. There are 3 equal parts

3) Which fraction is equivalent to  $\frac{1}{3}$ ?

A.  $\frac{1}{6}$

C.  $\frac{3}{6}$

B.  $\frac{2}{6}$

D.  $\frac{1}{2}$

4) Which pair of rectangles MUST have the same area?

A. A rectangle 2 units by 6 units, and a rectangle 3 units by 4 units

C. A rectangle 4 units by 5 units, and a rectangle 5 units by 4 units

B. A rectangle 5 units by 2 units, and a rectangle 4 units by 3 units

D. A rectangle 6 units by 2 units, and a rectangle 2 units by 5 units

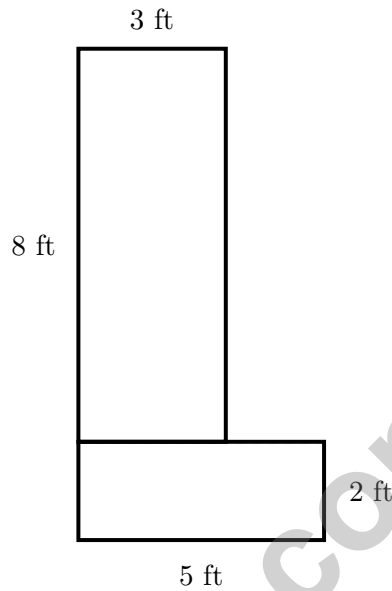
5) Mia tiles a square with 8 rows and 8 columns of unit squares. What is the area of her square in square units?



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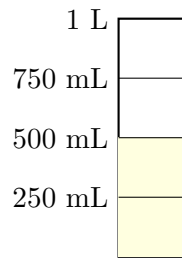


- 1) An L-shaped garden is divided into two rectangles by a dashed line. The vertical part is 3 ft by 8 ft. The horizontal part is 5 ft by 2 ft. What is the total area?



- A. 10 sq ft                       C. 34 sq ft  
 B. 24 sq ft                       D. 240 sq ft
- 2) Eli goes to bed at 9 : 23 PM. He sleeps for 9 hours and 37 minutes. What time does Eli wake up?
- A. 6 : 00 AM                       C. 7 : 15 AM  
 B. 7 : 00 AM                       D. 6 : 45 AM





Container

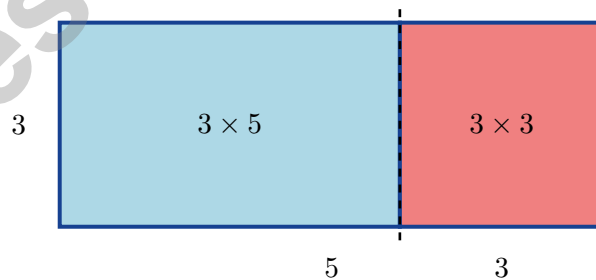
3)

A liquid container is filled to the 750 mL line. How much more liquid is needed to reach 1 liter?

- A. 100 mL
- B. 150 mL
- C. 250 mL
- D. 750 mL

4) Find  $7 \times 9 + 5$ .

5) Mia splits a rectangle to show  $3 \times 8 = 3 \times (5 + 3)$ .



What is  $3 \times 5 + 3 \times 3$ ?

- A. 14
- B. 20
- C. 27
- D. 24



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## Practice Test Answer Keys

**How to use this section with a Grade 3 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(3.OA.A.2)**  $12 \div 3$  asks “how many in each group when 12 items are shared equally among 3 groups?” Each group gets 4 items.
- 2) **Choice D is correct.** **(3.OA.A.3)** Multiply: 5 shelves  $\times$  6 books per shelf = 30 books.
- 3) **Choice D is correct.** **(3.OA.C.7)**  $48 \div 6 = 8$  because  $8 \times 6 = 48$ . Six groups of 8 make 48.
- 4) **Choice B is correct.** **(3.MD.C.7)** Area =  $5 \times 2 = 10$  square units.
- 5) **Choice A is correct.** **(3.MD.C.7d)** Top rectangle:  $5 \times 4 = 20$  sq ft. Bottom rectangle:  $3 \times 2 = 6$  sq ft. Total:  $20 + 6 = 26$  sq ft.
- 6) **Choice D is correct.** **(3.NF.A.3c)** 6 thirds means  $6 \div 3 = 2$  wholes. The bar shows two whole units.
- 7) **Choice D is correct.** **(3.MD.C.5b)**  $4 \times 7 = 28$  unit square stones.
- 8) **Choice B is correct.** **(3.NF.A.2a)** Larger denominators give smaller fractions.  $\frac{1}{8} < \frac{1}{4} < \frac{1}{2}$ .
- 9) **Choice B is correct.** **(3.MD.A.2)** 1 kg = 1000 g.
- 10) **Choice C is correct.** **(3.MD.C.5)** To cover the inside area of a square frame with side 5 inches, you need  $5 \times 5 = 25$  square inches of paper.
- 11) **Choice C is correct.** **(3.NF.A.3d)** Same numerator (3), different denominators: fourths are bigger pieces than sixths (the bar is cut into fewer, larger pieces). Three fourths covers more area than three sixths.
- 12) **Choice C is correct.** **(3.MD.C.5a)** The rectangle is 2 units wide and 5 units tall:  $2 \times 5 = 10$  unit squares.
- 13) **Choices A and B are correct.** **(3.OA.B.6)** A and B are correct because they show the two division facts from  $7 \times 8 = 56$ . C is false because  $72 \div 9 = 8$ , not 7. D is false because  $20 \div 5 = 4$  and  $5 \div 20$  is not a whole number; they are different. E is partially true but is a distractor because it doesn't test understanding of the inverse relationship.
- 14) **Choice C is correct.** **(3.NF.A.3a)** (i) shows  $\frac{1}{2}$  and (iii) shows  $\frac{2}{4}$ , which are equivalent fractions.
- 15) **Choice D is correct.** **(3.G.A.1)** A quadrilateral has 4 vertices (corners), one at each place where two sides meet.
- 16) **Choice D is correct.** **(3.OA.D.8)** Step 1: Subtract:  $80 - 8 = 72$  chairs. Step 2: Divide by rows:  $72 \div 8 = 9$  chairs per row.
- 17) **The correct answer is 4.** **(3.NF.A.3b)** The numerator doubles from 2 to 4.
- 18) **Choice D is correct.** **(3.OA.A.1)** The array shows 3 columns and 4 rows, so  $3 \times 4 = 12$  or  $4 \times 3 = 12$ .
- 19) **Choice C is correct.** **(3.MD.B.4)** Longer than  $8\frac{1}{2}$  means  $9, 9\frac{1}{2}$ : that is  $4 + 1 = 5$  insects.
- 20) **Choice D is correct.** **(3.NBT.A.1)** Numbers from 55 to 64 round to 60. The number 65 has ones  $5 \geq 5$ , so it rounds to 70, not 60.
- 21) **Choice C is correct.** **(3.MD.C.7a)**  $7 \times 5 = 35$  square units.
- 22) **Choice B is correct.** **(3.MD.A.1)** The minute hand points to 52 (just before the 11), and the hour hand is between 4 and 5. The time is 4 : 52.
- 23) **The correct answer is 30 apples.** **(3.MD.B.3)** Basket A:  $2 \times 5 = 10$  apples. Basket B:  $4 \times 5 = 20$  apples. Total:  $10 + 20 = 30$  apples.
- 24) **Choice B is correct.** **(3.NF.A.2b)** Point E at 2 on a 0-to-6 line is  $\frac{2}{6} = \frac{1}{3}$  of the distance.
- 25) **Choice A is correct.** **(3.NF.A.2)**  $\frac{1}{6}$  means one part out of six equal parts, which is at the first tick mark from 0.
- 26) **Choice A is correct.** **(3.MD.C.7c)** A vertical line in a rectangle splits its width or length. Here the length is 7 and the other dimension splits into  $3 + 2$ .
- 27) **The correct answer is 2.** **(3.NF.A.1)**  $\frac{1}{2} + \frac{1}{2} = 1$ , so 2 halves make one whole.
- 28) **Choice D is correct.** **(3.OA.D.9)** Each number increases by 6. These are multiples of 6:  $36 + 6 = 42$ .
- 29) **Choice D is correct.** **(3.NBT.A.2)** Round 268 to the nearest hundred: 300 (since  $268 > 250$ ). Round 305 to the nearest hundred: 300. Estimate:  $300 + 300 = 600$  miles. (Exact answer: 573 miles.)
- 30) **Choice D is correct.** **(3.OA.B.5)** The commutative property of multiplication states that  $a \times b = b \times a$ . This is why  $9 \times 2 = 2 \times 9 = 18$ .



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From a Friend Who Believes in You

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Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 4 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

**What I Want You to Know**

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

**One more thing:** on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Friend

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