

# 7

# Louisiana

# LEAP

## Grade 3 MATH

## PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



7 Full-Length  
Practice Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



Build Confidence.  
Achieve Success.

PREPARE  
PRACTICE  
SUCCEED



$4 \times 6 = 24$



# 7 Louisiana LEAP Grade 3 Math Practice Tests

*Standards-Aligned Practice with Review, Answer Keys, and Explanations*



Seven complete 30-question practice trails for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

## To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Louisiana LEAP. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Louisiana has bayou routes, levees, music blocks, Gulf Coast maps, and lively classroom talk, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and read every label before solving.

### Scout

Find what the problem is asking before you calculate.

### Solve

Pick an equation, model, array, graph, or number line.

### Prove

Check the answer and explain the thinking clearly.

**Seven-trail promise:** I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

# How to Use This Book

## A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Louisiana students, each trail moves through bayou routes, levees, music blocks, Gulf Coast maps, and lively classroom talk: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

**Best review habit:** A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



## What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Louisiana Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Louisiana LEAP path.

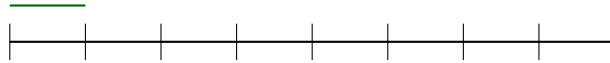


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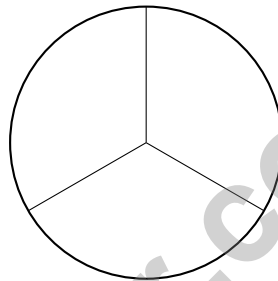
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- 1) A ribbon is marked on a number line from 0 to 1 with 8 equal spaces. Mia marks the first space. What fraction of the ribbon is marked?



- A.  $\frac{1}{8}$                        C.  $\frac{1}{9}$   
 B.  $\frac{1}{7}$                        D.  $\frac{2}{8}$
- 2) A circle is divided into equal parts. Each part is  $\frac{1}{3}$  of the circle. How many equal parts is the circle divided into?



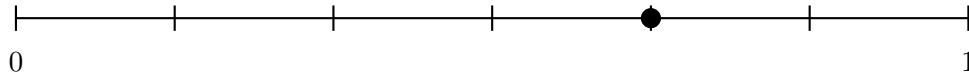
- A. 2 parts                       C. 4 parts  
 B. 3 parts                       D. 6 parts
- 3) What is  $42 \div 6$ ?
- A. 6                               C. 8  
 B. 9                               D. 7
- 4) Eli buys 4 boxes of pens. Each box has 8 pens. How many pens does Eli buy in total?
- A. 12                               C. 24  
 B. 28                               D. 32



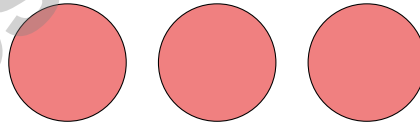


- 9) Mia colored  $\frac{2}{3}$  of a circle. Write an equivalent fraction that uses 6 as the denominator.

- 10) A number line from 0 to 1 has 6 equal parts. The dot marks which fraction?



- A.  $\frac{2}{6}$                        C.  $\frac{4}{6}$   
 B.  $\frac{3}{6}$                        D.  $\frac{5}{6}$
- 11) A large rectangle with total area 56 is split into two smaller rectangles. One is  $7 \times 6$  with area 42. Using the distributive property with the shared dimension of 7, what is the area of the second rectangle?
- A. 14                       C. 7  
 B. 42                       D. 8
- 12) The circles below are completely shaded. How many wholes do they show?



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



1) If you have  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$ , what fraction is the total?

- A.  $\frac{4}{6}$   
 B.  $\frac{1}{6}$

- C.  $\frac{4}{24}$   
 D.  $\frac{1}{4}$

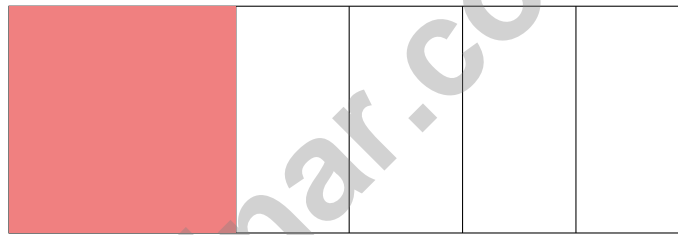
2) The bar shows  $\frac{8}{4}$ . How many whole units?



- A. 1 whole  
 B. 2 wholes

- C. 4 wholes  
 D. 8 wholes

3) Look at the rectangle. It is divided into 6 equal parts, and 2 parts are shaded. Which other fraction is EQUAL to the shaded amount?



Shaded:  $\frac{2}{6}$

- A.  $\frac{3}{8}$   
 B.  $\frac{1}{3}$

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

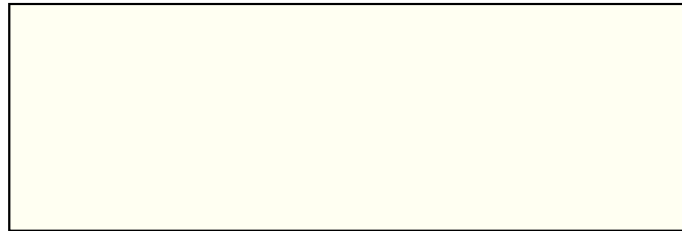
4) Ben has 4 boxes with 5 markers in each. Which number sentence shows how many markers he has?

- A.  $4 + 5 = 9$   
 B.  $5 + 5 + 5 = 15$

- C.  $4 \times 4 = 16$   
 D.  $4 \times 5 = 20$



3 yards



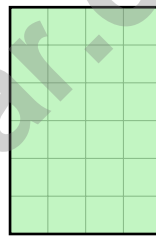
9 yards

5)

A rectangular field measures 9 yards long and 3 yards wide. What is the area of the field?

- A. 24 sq yd                       C. 12 sq yd  
 B. 27 sq yd                       D. 36 sq yd

6) This grid shows a rectangle made of unit squares.



What is the area in square units?

- A. 10 sq units                       C. 24 sq units  
 B. 18 sq units                       D. 28 sq units

7) A number line is divided into equal parts. The first tick after 0 is at  $\frac{1}{6}$ . Where is the third tick?

- A.  $\frac{2}{6}$                                        C.  $\frac{4}{6}$   
 B.  $\frac{3}{6}$                                        D.  $\frac{5}{6}$



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1) Which fraction is NOT equivalent to  $\frac{2}{6}$ ?

- A.  $\frac{1}{3}$
- B.  $\frac{2}{8}$

- C.  $\frac{1}{2}$
- D.  $\frac{2}{3}$

2) A rectangular carpet is 10 centimeters long and 5 centimeters wide. What is its area?

- A. 15 sq cm
- B. 30 sq cm

- C. 50 sq cm
- D. 55 sq cm



3)

What multiplication matches this equal-groups picture?

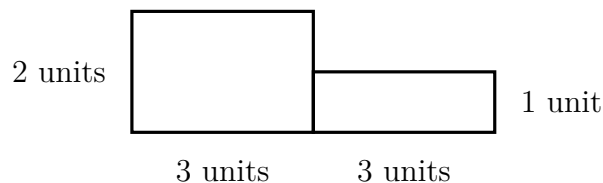
- A.  $6 \times 3 = 18$
- B.  $3 \times 5 = 15$

- C.  $12 \times 2 = 24$
- D.  $4 \times 3 = 12$

4) Two students round differently. Maria says 127 rounds to 130 (nearest 10). Josh says 127 rounds to 100 (nearest 100). Are both students correct? Explain.

- A. Both are wrong; the answer is 125
- B. Maria is wrong; Josh is right
- C. Both are correct because they are rounding to different place values
- D. Josh is wrong; Maria is right

5) A composite shape is made by joining two rectangles. What is the total area?



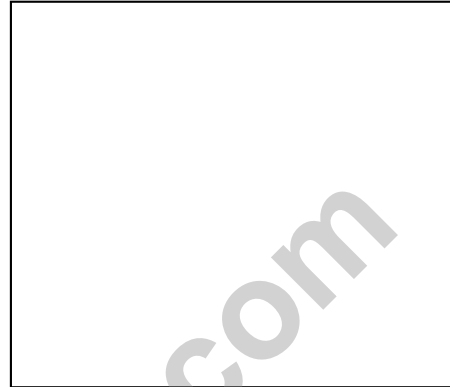
- A. 6 sq units
- B. 9 sq units

- C. 12 sq units
- D. 15 sq units

6) How many odd numbers are in the pattern 4, 8, 12, 16, 20, 24, 28? Explain why.



6 inches



7 inches

7)

What is the area of this rectangle?

A. 26 sq in

C. 13 sq in

B. 42 sq in

D. 84 sq in

8) A recipe needs  $\frac{18}{6}$  cups of flour. How many whole cups is this?

A. 6

C. 18

B. 3

D. 2



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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 A is correct.** **(3.NF.A.2a)** One of eight equal spaces is  $\frac{1}{8}$ .
- 2) **Choice B is correct.** **(3.G.A.2)** If each part is  $\frac{1}{3}$ , the circle is divided into 3 equal parts.
- 3) **Choice D is correct.** **(3.OA.C.7)**  $42 \div 6 = 7$  because  $7 \times 6 = 42$ .
- 4) **Choice D is correct.** **(3.OA.A.3)** Multiply: 4 boxes  $\times$  8 pens per box = 32 pens.
- 5) **Choice C is correct.** **(3.MD.B.3)** Red:  $5 \times 4 = 20$ . Blue:  $6 \times 4 = 24$ . Green:  $4 \times 4 = 16$ . Total:  $20 + 24 + 16 = 60$ .
- 6) **Choice A is correct.** **(3.MD.C.5)** Shape 1:  $2 \times 10 = 20$  square units. Shape 2:  $4 \times 5 = 20$  square units. They have equal areas.
- 7) **The correct answer is 383.** **(3.NBT.A.2)** Add to find the starting amount:  $145 + 238 = 383$ . Check:  $383 - 145 = 238$ .
- 8) **Choice A is correct.** **(3.MD.C.5b)** Rectangle 1: 3 columns and 4 rows =  $3 + 3 + 3 + 3 = 12$  unit squares. Rectangle 2: 6 columns and 2 rows =  $6 + 6 = 12$  unit squares. Rectangle 3: 5 columns and 3 rows =  $5 + 5 + 5 = 15$  unit squares. Rectangles 1 and 2 both have an area of 12 square units.
- 9) **The correct answer is  $\frac{4}{6}$ .** **(3.NF.A.3b)** Multiply the numerator and denominator by 2:  $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$ .
- 10) **Choice C is correct.** **(3.NF.A.2)** Counting ticks from 0, the dot is at the 4th mark out of 6 equal parts, so it is  $\frac{4}{6}$ .
- 11) **Choice A is correct.** **(3.MD.C.7c)** Total area is 56. First rectangle is 42. Second is  $56 - 42 = 14$ , which is  $7 \times 2$  (so width is 2).
- 12) **Choice C is correct.** **(3.NF.A.3c)** Three complete circles = 3 wholes =  $\frac{3}{1}$ .
- 13) **Choice A is correct.** **(3.MD.C.6)** Area =  $8 \times 4 = 32$  square centimeters.
- 14) **Choice C is correct.** **(3.OA.D.9)** Add 6 each time:  $36 + 6 = 42$ . This is the pattern for multiples of 6.
- 15) **The correct answer is  $\frac{2}{4}$ .** **(3.NF.A.2b)**  $\frac{2}{4} = \frac{1}{2}$ .
- 16) **Choice D is correct.** **(3.NBT.A.3)**  $7 \times 30 = 210$  (multiply  $7 \times 3 = 21$ , then multiply by 10). Quinn wrote 7 and 30 together as 730 instead. The correct answer is 210.
- 17) **Choices A and C are correct.** **(3.OA.D.8)** Step 1: Total boxes:  $60 \div 6 = 10$  boxes, so A is true. Step 2: Figures sold:  $5 \times 6 = 30$  figures, so B is false. The remaining figures are  $60 - 30 = 30$ , so C is true. D is false because each box has 6 figures, and E is false because 30 figures remain.
- 18) **Choice C is correct.** **(3.G.A.1)** This is a rectangle. All rectangles have 4 right angles, one at each corner.
- 19) **Choice D is correct.** **(3.OA.A.4)** Think:  $6 \times 5 = 30$ , so  $30 \div 5 = 6$ .
- 20) **Choice B is correct.** **(3.MD.B.4)** Sum at 3 and  $3\frac{1}{4}$  is 5. If 2 are at 3 inches, then  $5 - 2 = 3$  are at  $3\frac{1}{4}$  inches.
- 21) **Choice A is correct.** **(3.MD.C.5a)** A unit square has side length 1 unit. If measured in inches, that is 1 in  $\times$  1 in = 1 square inch.
- 22) **Choice D is correct.** **(3.OA.B.5)**  $4 \times 5 = 20$  and  $4 \times 2 = 8$ , so  $20 + 8 = 28$ . Also  $4 \times 7 = 28$ .
- 23) **Choice A is correct.** **(3.MD.A.2)** On Scale 1, the left side is 500 g and the right side is 400 g, so the left side weighs more. On Scale 2, both sides are equal.
- 24) **Choice C is correct.** **(3.MD.C.5)** Left:  $6 \times 5 = 30$  sq ft. Right:  $4 \times 3 = 12$  sq ft. Total:  $30 + 12 = 42$  sq ft.
- 25) **Choice D is correct.** **(3.OA.A.1)**  $4 \times 5 = 20$ ,  $5 \times 4 = 20$ , and  $10 + 10 = 20$ . But  $3 \times 6 = 18$ , which is not 20.
- 26) **Choice C is correct.** **(3.MD.C.7)**  $3 \times 8 = 24$  and  $4 \times 6 = 24$ . Choice A: 20 and 21. Choice B: 25 and 24. Choice D: 18 and 16.
- 27) **Choice B is correct.** **(3.NF.A.3d)**  $\frac{3}{8} < \frac{3}{4}$  because eighths are smaller parts than fourths. Also,  $\frac{2}{2} = 1$ , so the order is  $\frac{3}{8}, \frac{3}{4}, \frac{2}{2}$ .
- 28) **Choice C is correct.** **(3.NBT.A.1)** For 245: tens digit is  $4 < 5$ , rounds to 200. For 255: tens digit is  $5 \geq 5$ , rounds to 300. So 255 becomes the larger rounded number ( $300 > 200$ ).
- 29) **Choice D is correct.** **(3.OA.B.6)** If  $2 \times 8 = 16$ , then  $16 \div 2 = 8$  and  $16 \div 8 = 2$ . The division answers are the factors.
- 30) **Choice A is correct.** **(3.MD.A.1c)** At 8:42, the minute hand is between 8 and 9, and the hour hand is between 8 and 9 closer to 9. Option A shows this correctly.



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Notes From the Math Gardener

## Hi, Math Gardener!

◇ Look at how much you grew! 7 tests is like 7 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

### Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

**Gardener tip:** keep watering your math garden long after the test. Every habit you built will grow with you for years!

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 Gardener

# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



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