

FULL-LENGTH

# Louisiana LEAP

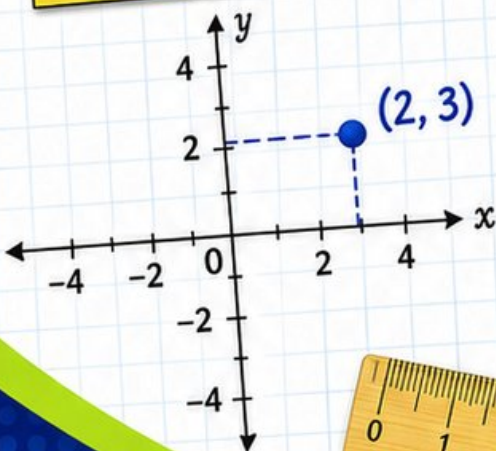
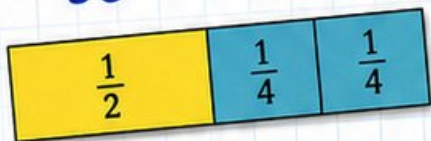
# 8

## GRADE 5

# MATH PRACTICE TESTS

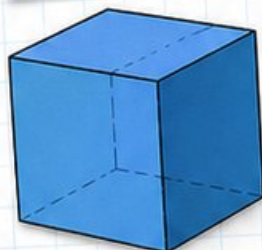
Mixed Practice Questions with Answer Key  
for Students, Parents, and Teachers

$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

$$7 \times (12 - 5) = 49$$

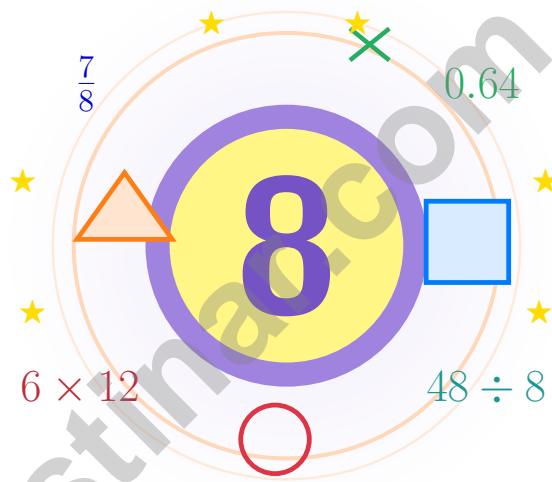


1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



# 8 Louisiana LEAP Grade 5 Math Practice Tests

*Seven chances to grow your math mind one careful step at a time*



Eight full tests, a focused quick review, and helpful support that turns Grade 5 practice in The Pelican State into steady, confident growth from page one to the final check.

**Jay Daie and Reza Nazari**



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# Louisiana, Your Eight-Test Trail Begins

Eight full tests woven into one calm, steady practice path

## Dear Louisiana Math Trail Crew

This practice book is your steady companion for eight tests, not a place to be perfect. Math thinking flows like a Louisiana bayou – slow, deep, full of quiet curves, and going somewhere on purpose.

Use these eight tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up across seven rounds.

### Watch

Watch what the problem actually wants from you.

### Choose

Choose the operation, model, or table that fits.

### Polish

Check labels, units, and the final word of the question.

**A strong habit for Louisiana mathematicians:** read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

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Scan me



# Your Eight-Step Trail Plan

A simple routine that turns practice into progress

## Step 1: Open

**Open the warm-up review and use it.**

Spend a few minutes waking up your memory before the test begins.

## Step 2: Test

**Take the test with steady focus.**

Work in a calm spot and focus on careful thinking before speed.

## Step 3: Reflect

**Notice what was sharp and what was shaky.**

Circle missed questions and notice which topics keep showing up.

## Step 4: Sharpen

**Practice the shaky skills before the next round.**

Read the explanation, repair the work, and bring that lesson into the next test.



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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

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### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

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### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

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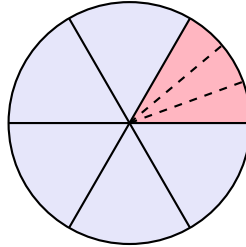
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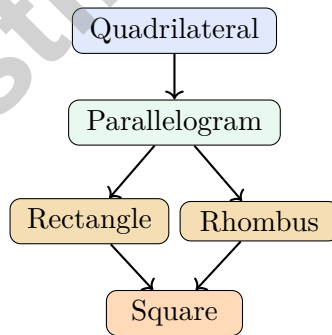
1 day = 24 hours (hr)      1 year = 52 weeks



- 1) A circle is divided into 6 equal sectors. One sector is  $\frac{1}{6}$  of the circle. This sector is then divided into 3 equal parts. What fraction of the whole circle is each small part?



- A.  $\frac{1}{18}$ 
 C.  $\frac{3}{6}$   
 B.  $\frac{1}{9}$ 
 D.  $\frac{1}{3}$
- 2) For the rule "double the input, then add 3," which ordered pairs are correct for inputs 0, 1, 2, and 3?
- A. (0, 3), (1, 5), (2, 7), (3, 9)  
 B. (0, 2), (1, 3), (2, 4), (3, 5)  
 C. (0, 0), (1, 2), (2, 4), (3, 6)  
 D. (3, 0), (5, 1), (7, 2), (9, 3)



3)

Which statement is supported by the hierarchy?

- A. Every rectangle is a rhombus.
  C. Every rhombus is a square.  
 B. A square is both a rectangle and a rhombus.
  D. Every quadrilateral is a parallelogram.



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1) A composite stage platform is made from two non-overlapping rectangular prisms. Prism A is 4 feet long, 2 feet wide, and 2 feet tall. Prism B is 3 feet long, 5 feet wide, and 1 feet tall. What is the total volume?

- A. 16 cubic feet                       C. 31 cubic feet  
 B. 15 cubic feet                       D. 39 cubic feet

2) Rewrite  $\frac{1}{3}$  and  $\frac{1}{4}$  with a common denominator of 12.

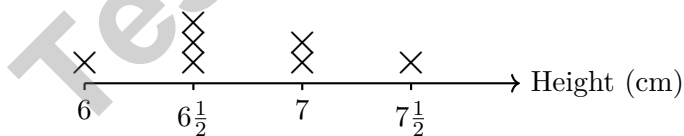


- A.  $\frac{4}{12}$  and  $\frac{3}{12}$                        C.  $\frac{2}{12}$  and  $\frac{5}{12}$   
 B.  $\frac{3}{12}$  and  $\frac{4}{12}$                        D.  $\frac{6}{12}$  and  $\frac{3}{12}$

3) Which whole number divided by  $\frac{1}{5}$  gives 25?

- A. 3     C. 8  
 B. 5     D. 10

4) A line plot shows plant heights in centimeters:



What is the total height of all the plants?

*Record your answer in the space provided.*



## Grade 5 Mathematics Reference Materials

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1) Pattern: 3, 6, 12, 24, ... What's next?

- A. 30                       C. 36  
 B. 72                       D. 48

2) A graph of a number pattern passes through (1, 5), (2, 10), (3, 15). The  $y$ -value is 5 times the  $x$ -value. What ordered pair should be plotted when  $x = 4$ ?

*Record your answer in the space provided.*

3) A machine fills containers at a rate of 2.25 liters per minute. How many liters does it fill in 160 minutes?

- A. 350 liters                       C. 370 liters  
 B. 360 liters                       D. 380 liters

4) A student has \$25.00. She buys art supplies for \$10.75. How much money does she have left?

- A. \$14.75                       C. \$15.50  
 B. \$14.25                       D. \$13.50



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice B is correct.** (5.NF.B.7c) Each whole contains 5 pieces of size  $\frac{1}{5}$ . With 3 wholes, there are  $3 \times 5 = 15$  pieces.
- Choice C is correct.** (5.NF.A.2a)  $\frac{5}{12} + \frac{4}{12} = \frac{9}{12} = \frac{3}{4}$  of the string.
- Choice A is correct.** (5.NF.B.7c) Use total amount divided by the size of one piece. The equation is  $9 \div \frac{1}{6} = n$ .
- The correct answer is 36855.** (5.NBT.B.5)  $819 \times 5 = 4,095$  and  $819 \times 40 = 32,760$ . Sum:  $4,095 + 32,760 = 36,855$ .
- The correct answer is <.** (5.NBT.B.5) 1.408 has 4 tenths and 0 hundredths. 1.48 has 4 tenths and 8 hundredths. So  $1.408 < 1.48$ .
- Choice D is correct.** (5.NBT.A.3b) Items at \$5 contribute  $2 \times \$5 = \$10$ . Items at \$10 contribute  $3 \times \$10 = \$30$ . For items at \$10 and below, the total is  $\$10 + \$30 = \$40$ .
- Choice D is correct.** (5.OA.A.1) The parentheses give  $15 + 5 = 20$ . Then  $20 \div 4 = 5$  and  $3 \times 2 = 6$ , so the final sum is  $5 + 6 = 11$ .
- Choice B is correct.** (5.OA.A.1)  $1\frac{3}{8} \approx 1$  and  $2\frac{7}{10} \approx 3$ . So  $1\frac{3}{8} + 2\frac{7}{10} \approx 1 + 3 = 4$  cups.
- Choice C is correct.** (5.G.B.3) Shape C is a rhombus. It has two pairs of parallel sides, all sides the same length, and no right angles.
- Choice D is correct.** (5.NBT.A.2) The nonzero parts make  $8 \times 9 = 72$ , which has no trailing zero. The four zeros from 800 and 900 give 720,000, so the product has 4 zeros.
- Choice C is correct.** (5.MD.C.5c) Find each part first: Prism A is  $6 \times 2 \times 3 = 36$  cubic feet, and Prism B is  $3 \times 5 \times 5 = 75$  cubic feet. Because the parts do not overlap, add them:  $36 + 75 = 111$  cubic feet.
- The correct answer is 60.** (5.MD.C.4) Multiply the number of cubes in each layer by the number of layers:  $12 \times 5 = 60$ . The volume is 60 cubic units.
- Choice D is correct.** (5.MD.C.4) Subtract the sales and returns from the total cost:  $4,850 - 3,200 - 450 = 1,200$ . So \$1,200 is still not covered.
- Choice B is correct.** (5.G.B.4) The number 3 is in the intersection. A square has four right angles and four equal sides, so it belongs in both circles.
- Choice B is correct.** (5.NF.A.2a) LCD = 24.  $\frac{7}{8} = \frac{21}{24}$ ;  $\frac{1}{3} = \frac{8}{24}$ ;  $\frac{21}{24} - \frac{8}{24} = \frac{13}{24}$ .
- Choice B is correct.** (5.NBT.A.2) Dividing by 10 moves the decimal point one place to the left. Since  $350 = 350.0$ , we get  $350.0 \div 10 = 35.0 = 35$ .
- Choice A is correct.** (5.NBT.A.2) The second coordinate is double the first coordinate, then 1 more. For first coordinate 3, double 3 and add 1 to get 7, so the next point is (3, 7).
- Choice C is correct.** (5.NBT.A.2) Multiplying by 1,000 moves the decimal three places right:  $0.25 \rightarrow 2.5 \rightarrow 25 \rightarrow 250$ .
- Choice A is correct.** (5.NBT.A.2) A is 150 cm, B is 15 cm, C is 1.5 cm. The largest is 150 cm.
- Choice D is correct.** (5.NBT.A.2)  $10^2 = 100$ . So  $? \times 100 = 4500 \Rightarrow ? = 45$ .
- Choice D is correct.** (5.NBT.A.2) Multiply the three dimensions:  $11 \times 7 \times 4 = 308 \text{ cm}^3$ .
- Choices A, B are correct.** (5.MD.A.1) C is not true because 1 gallon is 16 cups. D is not true because 1 mile is 5,280 feet.
- Choice B is correct.** (5.NF.B.5c)  $\frac{2}{3} \times \frac{3}{5} = \frac{6}{15} = \frac{2}{5}$  gallon.
- Choice A is correct.** (5.NBT.B.7) Subtract each column: ones  $8 - 2 = 6$ , tenths  $6 - 3 = 3$ , hundredths  $4 - 1 = 3$ . Result: 6.33.
- Choice B is correct.** (5.MD.C.5a)  $V = 12 \times 2 \times 9 = 216 \text{ ft}^3$ .
- Choice B is correct.** (5.NF.B.5c) Five copies of  $\frac{1}{6}$  make  $\frac{5}{6}$ . The denominator stays 6 because the size of each piece is still sixths.
- Choice B is correct.** (5.OA.B.3) Check the table:  $3 \times 2 - 1 = 5$ ,  $3 \times 3 - 1 = 8$ , and  $3 \times 5 - 1 = 14$ .
- Choice B is correct.** (5.NBT.A.3a) A fraction with denominator 10 equals a decimal with one place:  $\frac{8}{10} = 0.8$ .
- The correct answer is 4.** (5.OA.A.1)  $9 + 3 = 12$ ;  $12 \times 2 = 24$ ;  $24 - 4 = 20$ ;  $20 \div 5 = 4$ .
- Choice B is correct.** (5.OA.A.1) The figures are  $1 \times 1$ ,  $2 \times 2$ , and  $3 \times 3$  squares. Figure 5 would be  $5 \times 5 = 25$  unit squares.



### From Your Math Family

#### Dear Member of the Math Family,

◇ Welcome to a special note from your math family. You finished 8 full practice tests, and that hard work matters more than any single score. We see you. We're proud of you. ◇

★ **What our math family knows:** math is a journey, not a one-time event. You've taken many steps already. The test is just one stop on a much longer path. Every skill you've built is yours forever. ★

#### What Your Math Family Sees

- **Effort:** STRONG! You showed up again and again.
- **Growth:** REAL! You can solve problems today you couldn't before.
- **Courage:** BRIGHT! You faced hard problems with brave thinking.
- **Future:** BIG! Your math journey is just beginning.

**Family tip:** on test day, picture us standing behind you, smiling and rooting for you. You're not alone. Your math family is with you. Now go show what you've learned.

If you'd like to share your experience or have questions, please email me at [reza@testinar.com](mailto:reza@testinar.com). I'd love to hear from you!

**Reza Nazari & Jay Daie**

Your Math Family (Always With You)

$45 \div 5 = ?$

# PRACTICE TODAY.

$\frac{3}{5} + \frac{1}{10} = ?$



## ACHIEVE TOMORROW!



$3^2 + 4^2 = 25$

This book includes **8** full-length **Grade 5** math practice tests to help students master essential skills, build confidence, and achieve success. Each test is carefully designed to reflect real math standards and cover a variety of question types with detailed answer explanations.

$7x - 4 = 17$

$1\frac{1}{2} + 2\frac{1}{3} = ?$

## 8 FULL-LENGTH MATH PRACTICE TESTS



### REALISTIC PRACTICE

Tests mirror Grade 5 math standards and real assessment formats.



### ANSWER KEY INCLUDED

Detailed answer explanations help students understand and learn.



### BUILD CONFIDENCE & SKILLS

Strengthens problem-solving abilities and reinforces key math concepts.



### IMPROVE & TRACK PROGRESS

Identify strengths and focus on areas that need improvement.



### ACHIEVE SUCCESS

Boosts test readiness and helps students achieve their best results.

### COVERS ALL KEY GRADE 5 MATH TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis

...and More!



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