

10 COMPLETE

Louisiana

LEAP

GRADE 5

MATH

PRACTICE TESTS

Standards-Based Review with
Mixed Practice and Detailed Answer Key



10 Complete Practice Tests

Build confidence and test readiness



Standards-Based Review

Covers key Grade 5 math standards



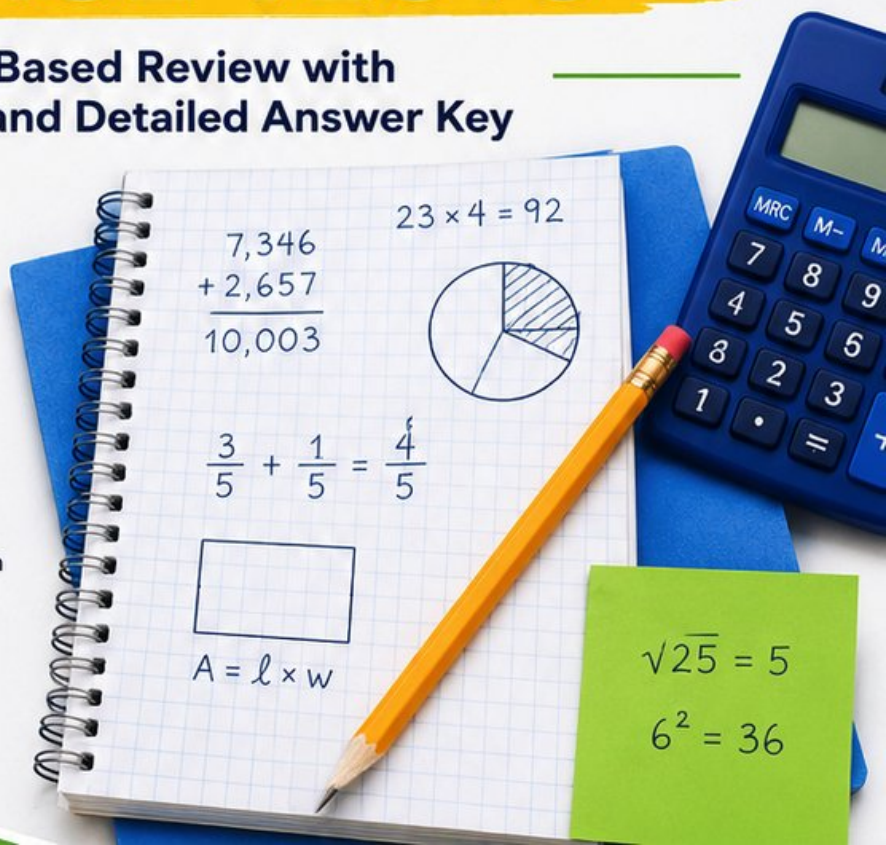
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

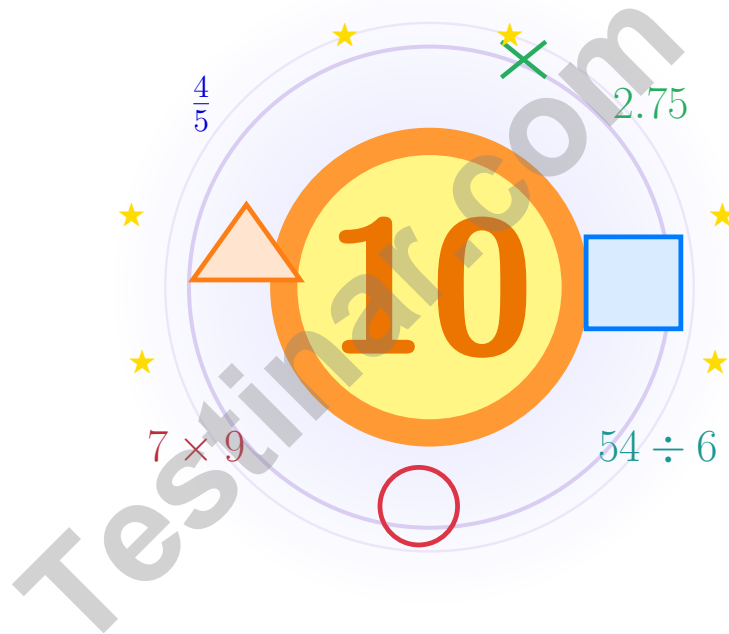
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Louisiana LEAP Grade 5 Math Practice Tests

Bright review, thoughtful practice, and steady confidence for Grade 5



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

Jay Daie and Reza Nazari



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Welcome!

This book is a place to practice bravely and think clearly

Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

Read

Slow down and understand the task.

Solve

Show clear steps and good choices.

Learn

Use mistakes as clues for what comes next.

A strong habit from the start: keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



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How to Use This Book

A simple routine that turns practice into real progress

Step 1

Warm up with the quick review.

Spend a few minutes refreshing the ideas before the test begins.

Step 2

Take one full practice test.

Work in a calm spot and aim for careful thinking before speed.

Step 3

Check your work honestly.

Circle missed questions and notice which skills need another look.

Step 4

Fix and reflect.

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



A Good 10-Week Rhythm

Week 1	Take Test 1 and notice your starting strengths.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen multiplication and division checks.
Week 4	Take Test 4 and focus on fractions and decimals.
Week 5	Take Test 5 and watch your labels and units closely.
Week 6	Take Test 6 and practice calmer pacing.
Week 7	Take Test 7 and compare your habits with the earlier weeks.
Week 8	Take Test 8 and focus on tidy, checkable work.
Week 9	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
Week 10	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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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	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

WEIGHT AND MASS

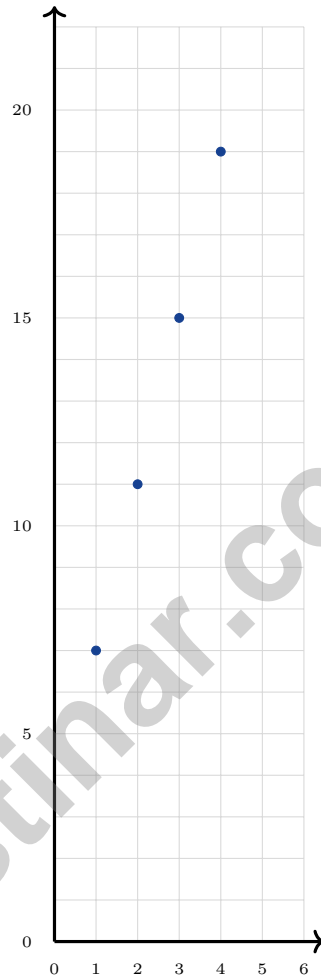
Customary	Metric
1 pound (lb) = 16 ounces (oz)	1 kilogram (kg) = 1,000 grams (g)
	1 gram (g) = 1,000 milligrams (mg)

TIME

1 minute (min) = 60 seconds (sec)	1 week = 7 days
1 hour (hr) = 60 minutes (min)	1 year = 12 months
1 day = 24 hours (hr)	1 year = 52 weeks



- 1) An input-output table shows: inputs 1, 2, 3, 4 with outputs 7, 11, 15, 19. These pairs are plotted as (input, output). What is the relationship?



- A. Add 6 to the first coordinate
- B. Multiply the first coordinate by 5, then add 2
- C. Multiply the first coordinate by 3, then add 4
- D. Multiply the first coordinate by 4, then add 3



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1 hour (hr) = 60 minutes (min) 1 year = 12 months

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



- 1) Four athletes' sprint times (in seconds) are shown. Who ran the fastest (shortest time)?

Athlete	Time (seconds)
Alex	12.45
Jordan	12.54
Casey	12.35
Morgan	12.40

- A. Alex
- B. Jordan
- C. Casey
- D. Morgan
- 2) A triangle has two sides of 9 cm each and one side of 5 cm. Is this triangle scalene, isosceles, or equilateral?
- A. Scalene
- B. Isosceles
- C. Equilateral
- D. Right
- 3) Compare without calculating: $4 \times (25 + 6)$ $(4 \times 25) + 6$
- A. $>$
- B. $<$
- C. $=$
- D. Cannot tell
- 4) A composite bookcase base is made from two non-overlapping rectangular prisms. Prism A is 8 centimeters long, 2 centimeters wide, and 5 centimeters tall. Prism B is 3 centimeters long, 3 centimeters wide, and 3 centimeters tall. What is the total volume?
- A. 107 cubic centimeters
- B. 80 cubic centimeters
- C. 27 cubic centimeters
- D. 123 cubic centimeters



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End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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

- 1) **Choice D is correct.** (5.G.A.2) Check: (1, 7) gives $4(1) + 3 = 7$ check; (2, 11) gives $4(2) + 3 = 11$ check; (3, 15) gives $4(3) + 3 = 15$ check; (4, 19) gives $4(4) + 3 = 19$ check.
- 2) **Choice C is correct.** (5.NF.B.7c) Each whole contains 5 pieces of size $\frac{1}{5}$. With 4 wholes, there are $4 \times 5 = 20$ pieces.
- 3) **Choice D is correct.** (5.G.A.2) Move 3 units right for the x-coordinate and 2 units up for the y-coordinate. Point P is at (3, 2), so P matches the description.
- 4) **Choice A is correct.** (5.NBT.A.2) Move the decimal 1 place left: $1.9 \div 10 = 0.19$.
- 5) **Choice A is correct.** (5.NF.A.2a) Multiples of 4: 4, 8, 12, 16, 20, 24, ... Multiples of 6: 6, 12, 18, 24, ... Multiples of 8: 8, 16, 24, ... The first common multiple is 24, so the LCD is 24.
- 6) **Choice A is correct.** (5.MD.C.5a) Volume requires multiplication: $V = 4 \times 3 \times 6 = 72 \text{ m}^3$, not addition.
- 7) **Choice D is correct.** (5.NBT.A.2) Total items divided by items per box: $6,400 \div 100 = 64$ boxes.
- 8) **Choice C is correct.** (5.NF.B.7c) $\frac{1}{6} \div 2 = \frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$.
- 9) **Choice C is correct.** (5.G.A.1) To find the farthest right point, look for the largest x-coordinate. Point J at (9, 8) has x-coordinate 9, which is the largest.
- 10) **Choice B is correct.** (5.NF.A.2a) Multiply numerator and denominator by 4: $\frac{3 \times 4}{4 \times 4} = \frac{12}{16}$.
- 11) **Choice C is correct.** (5.NBT.A.2) A power of 10 tells how many factors of 10 to use. $50000 = 5 \times 10000 = 5 \times 10^4$. This confirms the answer.
- 12) **Choice A is correct.** (5.OA.B.3) Pattern J is twice Pattern I: $2 \times 2 = 4$, $5 \times 2 = 10$, $8 \times 2 = 16$, $11 \times 2 = 22$.
- 13) **The correct answer is $(20 - 6) \div 7$.** (5.OA.A.2) The phrase "then divide by 7" applies to the result of $20 - 6$, so use $(20 - 6) \div 7$.
- 14) **Choice A is correct.** (5.NF.B.5c) $\frac{1}{7} \times \frac{3}{4} = \frac{1 \times 3}{7 \times 4} = \frac{3}{28}$.
- 15) **Choice A is correct.** (5.NBT.B.7) $0.8 \times 5 = 4$. The area model shows 0.8 (width) times 5 (height) equals 4 square units.
- 16) **Choice A is correct.** (5.NBT.B.7) Hundredths: $8 + 6 = 14$ (regroup 1 tenth); tenths: $3 + 4 + 1 = 8$; ones: $5 + 2 = 7$. The chart shows 7 ones, which is correct.
- 17) **Choice C is correct.** (5.MD.C.3b) A swimming pool is very large. Cubic meters is an appropriate unit. Cubic millimeters and centimeters are too small; cubic inches are also small.
- 18) **The correct answer is 3.47.** (5.NBT.A.3a) Read the place value to decide whether the decimal uses tenths, hundredths, or thousandths. Three wholes, then 47 hundredths: 3.47. This confirms the answer.
- 19) **The correct answer is 343 cm^3 .** (5.MD.C.5a) A cube has the same side length in every direction. So the volume is $7 \times 7 \times 7 = 343 \text{ cm}^3$.
- 20) **Choice C is correct.** (5.MD.A.1) Total: 9 yards = 27 feet. Each piece: $27 \div 3 = 9$ feet.
- 21) **Choice C is correct.** (5.NF.B.7c) The unit fraction is the amount being shared, so divide $\frac{1}{6}$ by 5. The equation is $\frac{1}{6} \div 5 = n$.
- 22) **Choices A, B are correct.** (5.OA.A.2) A is true because 3 copies of (6 + 4) can be written as 2 copies plus 1 more copy. B is true because 10 groups of 7 are greater than 10 groups of 7 - 1. C adds an extra 9, and D leaves out one group of 5.
- 23) **Choice D is correct.** (5.NBT.A.2) Multiplying by 1,000 moves the decimal three places right, so 1.99 becomes 1,990.
- 24) **Choice A is correct.** (5.OA.A.1) The output is found by starting with 4 and adding twice the input. Since $18 - 4 = 14$, twice the input must be 14, so the input is 7.
- 25) **Choice C is correct.** (5.G.A.2) For this rule, each y-value should be 5 times the x-value. When $x = 6$, the output should be $5 \times 6 = 30$, not 25.
- 26) **Choice B is correct.** (5.NBT.A.1) The tenths digit is 3, so the expression is 3×0.1 . That product gives the digit's value, 0.3.
- 27) **Choice B is correct.** (5.MD.A.1) Total rice: $400 + 400 = 800 \text{ g}$. Convert: $800 \div 1000 = 0.8 \text{ kg}$.
- 28) **Choice B is correct.** (5.NBT.B.6) $22 \times 34 = 748$. Area model confirms $748 \div 22 = 34$.



Captain of Your Own Math Plane,

◇ 10 practice tests behind you. That's many flights logged in your math airplane. You've handled clear weather, turbulence, tricky landings, and long routes. You're a real pilot now. ◇

★ **Pilots know:** a good pre-flight check makes for a good flight. Before each test problem, do your check: read the question, look at the numbers, pick a strategy. That short check makes the rest of the flight smooth. ★

Flight Crew Skills

- **Pre-flight Check:** CONSISTENT! You read questions carefully.
- **Navigation:** STRONG! You pick a clear strategy.
- **Steady Flight:** STEADY! You stay calm through long tests.
- **Landing:** SHARP! You always check your final answer.

Pilot's tip: on test day, don't fly the whole flight in your head before takeoff. Just take off. Then handle one problem at a time. Trust your training. You've earned your wings.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Pilot (Clear Skies Ahead)

PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



10

COMPLETE PRACTICE TESTS

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Improve Test Readiness

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- ✓ Algebraic Thinking
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- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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