

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

Indiana ILEARN

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 Indiana ILEARN Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 4 practice rounds for ILEARN, built around covered bridges, race-day focus, and fast fact fluency, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Indiana Math Explorer!

Nine steady rounds on the Hoosier State math route

This book gives you nine full Grade 4 practice tests for ILEARN. Each round uses covered bridges, race-day focus, and fast fact fluency to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Indiana Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Indiana ILEARN review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Hoosier State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Nine tests, 270 questions, and a full ILEARN review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

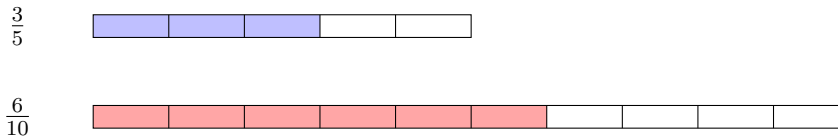


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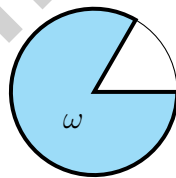
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- 1) Two fraction bars are shown below. Both have the same amount shaded. What is true about the denominators?



- A. The denominators are the same C. $\frac{6}{10}$ has a larger denominator
 B. $\frac{3}{5}$ has a larger denominator D. The fractions are not equivalent
- 2) A baker has $3\frac{2}{5}$ pounds of almonds. She uses $2\frac{1}{5}$ pounds in a recipe. How many pounds of almonds are left?



- 3) The unshaded (white) sector from the diagram measures 60° . What is the measure of the shaded angle ω ?

- A. 240° C. 300°
 B. 270° D. 330°

4) Add: $\frac{2}{10} + \frac{30}{100}$.

A. $\frac{32}{100}$

B. $\frac{50}{100}$

C. $\frac{32}{110}$

D. $\frac{2}{30}$

5) What is 98,765 rounded to the nearest thousand?

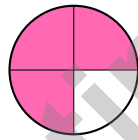
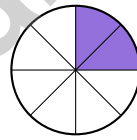
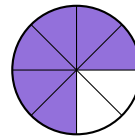
A. 98,000

B. 100,000

C. 98,800

D. 99,000

6) Ava eats 3 of 8 equal pizza slices. What fraction of the pizza did she eat?

7) Mia shaded $\frac{3}{4}$ of a circle. Which circle shows an equivalent amount shaded?Mia: $\frac{3}{4}$ A: $\frac{2}{8}$ B: $\frac{6}{8}$

A. Circle A

B. None of them

C. Circles A and B

D. Circle B

8) A classroom has 10 desks. The hallway has 3 times as many desks. How many desks are in the hallway?

A. 13

B. 20

C. 40

D. 30



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9) Which equation does this bar model show?



- A. $2 \times \frac{2}{3}$
- B. $2 \times \frac{1}{4}$

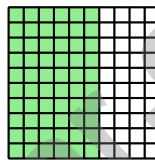
- C. $4 \times \frac{1}{2}$
- D. $2 \times \frac{1}{2}$

10) Mia has a string of length $\frac{11}{12}$ yard. She cuts it into two pieces where one piece is $\frac{6}{12}$ yard. Which shows this decomposition?

- A. $\frac{6}{12} + \frac{5}{12}$
- B. $\frac{4}{12} + \frac{7}{12}$

- C. $\frac{5}{12} + \frac{5}{12}$
- D. $\frac{8}{12} + \frac{4}{12}$

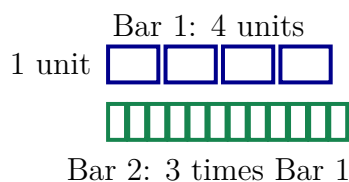
11) What decimal does this shaded region represent?



- A. 0.60
- B. 0.90

- C. 0.06
- D. 0.09

12) Look at the bar model. Both bars show a total of how much?



- A. 4 units
- B. 8 units

- C. 12 units
- D. 16 units

1) How many pairs of parallel sides does a parallelogram have?

2) Round 56,841 to the nearest thousand.

- A. 56,000 C. 56,800
 B. 60,000 D. 57,000

3) A rectangle has a perimeter of 42 inches. The length is 12 inches. What is the width?

- A. 6 in C. 8 in
 B. 9 in D. 18 in

4) A straight angle measures 180° . If it is split into two angles, and one angle is 125° , what is the measure of the other angle?

- A. 55° C. 305°
 B. 65° D. 180°

5) Which numeral represents “two hundred thirty-four thousand, six hundred seventy-eight”?

- A. 243,678 C. 234,687
 B. 234,768 D. 234,678



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6) A container of juice has $\frac{9}{10}$ liter. After serving some drinks, $\frac{4}{10}$ liter is left. How much juice was served?

- A. $\frac{5}{10}$
 B. $\frac{13}{10}$

- C. $\frac{4}{10}$
 D. $\frac{1}{10}$

7) A trapezoid with a vertical line of symmetry has what other special property?

- A. Both legs are equal length
 B. All four sides are equal
 C. It is a rectangle

- D. It has two parallel sides of different lengths

8) One basket holds 5 apples. Another basket holds 6 times as many apples. What is the total number of apples in both baskets?

9) Which number is prime?

- A. 18
 B. 14

- C. 16
 D. 13

10) Look at the place-value table and find the missing decimal.

Tenths	Hundredths	Decimal
5	8	?

What is the decimal?

- A. 0.58
 B. 0.85

- C. 5.8
 D. 58.0



1) Ming's bookshelf is a rectangle. It is 16 inches long and 12 inches wide. What is the area of the bookshelf?

A. 192 sq in

C. 28 sq in

B. 56 sq in

D. 256 sq in

2) On a line plot with halves, Ella collected: $\frac{1}{2}$, 1, 1, $\frac{1}{2}$, $\frac{3}{2}$, 1. How many measurements are 1 inch or longer?

A. 2

C. 4

B. 3

D. 5

3) An ant model is 5 centimeters long. How many millimeters is this?

A. 5

C. 500

B. 50

D. 5,000

4) What is $6 \times \frac{1}{6}$?

5) Noah walked $\frac{5}{6}$ mile before lunch and $\frac{4}{6}$ mile after lunch. Did he walk more than one mile? How much more or less?

A. Yes, $\frac{1}{2}$ mile more

C. Exactly one mile

B. No, $\frac{1}{6}$ less

D. No, $\frac{1}{6}$ more than one



6) Ava read 4,623 pages in a book series. Round to the nearest hundred to estimate pages read.

A. 4,600

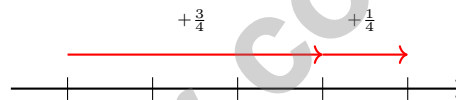
C. 4,700

B. 4,620

D. 5,000

7) Subtract: $10,000 - 4,567 = ?$

8) Which number line shows $\frac{3}{4} + \frac{1}{4} = 1$?



A. Starts at 0, hops to $\frac{1}{2}$

C. Starts at $\frac{1}{4}$, hops to 1

B. Starts at 0, hops to $\frac{3}{4}$, then to 1

D. Starts at $\frac{1}{2}$, hops to 1

9) What is $7\frac{4}{10} - 2\frac{5}{10}$?

A. $4\frac{8}{10}$

C. $5\frac{1}{10}$

B. $4\frac{9}{10}$

D. $5\frac{9}{10}$

10) Which turn is the largest?

A. $\frac{1}{2}$ turn

C. $\frac{2}{5}$ turn

B. $\frac{1}{3}$ turn

D. $\frac{1}{4}$ turn



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Practice Test Answer Keys

How to use this section with a Grade 4 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

- Choice C is correct.** (4.NS.3) The bars show the same shaded length, so $\frac{3}{5} = \frac{6}{10}$ (equivalent). Since $10 > 5$, the second denominator is larger.
- The correct answer is $1\frac{1}{5}$.** (4.CA.6) The baker used some almonds from her supply. Subtract the amount used: $3\frac{2}{5} - 2\frac{1}{5} = 1\frac{1}{5}$ pounds of almonds remain.
- Choice C is correct.** (4.G.2) The unshaded sector is 60° , so the shaded region is the rest: $360^\circ - 60^\circ = 300^\circ$.
- Choice B is correct.** (4.NS.3) First, convert $\frac{2}{10}$ to hundredths: $\frac{2}{10} = \frac{20}{100}$. Now add the fractions: $\frac{20}{100} + \frac{30}{100} = \frac{50}{100}$.
- Choice D is correct.** (4.NS.7) We're rounding to the nearest thousand. Look at the hundreds digit: 7. Since $7 \geq 5$, we round UP! The thousands digit changes from 8 to 9, giving us **99,000**. ✓
- The correct answer is $\frac{3}{8}$.** (4.CA.6) Ava ate 3 slices out of 8, which is $\frac{3}{8}$. Breaking this into unit fractions: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$.
- Choice D is correct.** (4.NS.3) Mia shaded $\frac{3}{4}$. Circle B shows 6 out of 8 parts shaded. Multiply numerator and denominator by 2: $\frac{3}{4} = \frac{3 \times 2}{4 \times 2} = \frac{6}{8}$. ✓ Circle A shows only $\frac{1}{4}$.
- Choice D is correct.** (4.CA.5) "3 times as many" tells us to multiply: $3 \times 10 = 30$ desks in the hallway.
- Choice D is correct.** (4.NS.2) The bar model shows two bars, each divided in half with one half shaded in each. This matches $2 \times \frac{1}{2}$, which means 2 copies of $\frac{1}{2}$. The answer is $2 \times \frac{1}{2}$ (Choice D).
- Choice A is correct.** (4.CA.6) Mia's string is $\frac{11}{12}$ long. One piece is $\frac{6}{12}$, so the other must be $\frac{11}{12} - \frac{6}{12} = \frac{5}{12}$. Check: $6 + 5 = 11$. ✓
- Choice B is correct.** (4.NS.3) The hundredths grid is almost completely shaded: 90 squares out of 100. That equals $\frac{90}{100} = 0.90 = 0.9$.
- Choice D is correct.** (4.CA.5) Step 1: Bar 2 is 3 times Bar 1, so $\text{Bar } 2 = 4 \times 3 = 12$ units. Step 2: add both bars for the total: $4 + 12 = 16$ units.
- Choice A is correct.** (4.NS.2) When we multiply a whole number by a unit fraction, we get that many copies of the unit fraction. So $5 \times \frac{1}{12}$ means 5 copies of $\frac{1}{12}$, which is $\frac{5}{12}$.
- Choice D is correct.** (4.NS.7) In any number, the thousands place is always 10 times the hundreds place. Example: in 2,222, thousands is 2,000 and hundreds is 200; $2,000 \div 200 = 10$ times. ✓
- Choice C is correct.** (4.G.2) An acute angle is small and pointy — less than 90° . Diagram C opens just a tiny bit (around 28°), so it's acute. The others are obtuse or right angles.
- Choice A is correct.** (4.NS.2) A multiple of $\frac{1}{5}$ means we count by fifths. We can write $\frac{2}{5} = 2 \times \frac{1}{5}$, so it's a multiple. The others don't fit that pattern.
- The correct answer is A, C.** (4.M.4) Check A: Area = $10 \times 6 = 60$ sq ft ✓ Check C: Perimeter = $2(10) + 2(6) = 32$ ft ✓ The other options are incorrect.
- Choice C is correct.** (4.CA.1) From the chart: thousands: 6 → 6,000, hundreds: 0 (omit), tens: 8 → 80, ones: 3 → 6,000 + 80 + 3 ✓
- Choice B is correct.** (4.CA.5) The diagram shows the angle divided into two equal parts by a ray. Add them: $42^\circ + 42^\circ = 84^\circ$.
- Choice D is correct.** (4.NS.3) The tenths place decides it: 9 is the largest. Among the two with tenths = 9, compare hundredths: $9 > 1$, so $0.99 > 0.91$.
- The correct answer is 18.** (4.G.2) The angle spans from 0° to 18° , so it measures **18°** .
- Choice C is correct.** (4.CA.2) Divide: $7 \div 9 = 0$ r7, bring down the 6 to get $76 \div 9 = 8$ r4, bring down the 2 to get $42 \div 9 = 4$ r6. The remainder is 6.
- Choice A is correct.** (4.CA.6) Add the wholes: $2 + 1 = 3$. Add the fractions: $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$. The sum is **$3\frac{7}{8}$** .
- Choice A is correct.** (4.NS.2) We multiply the number of candies by the weight of each: $6 \times \frac{1}{8} = \frac{6}{8}$ pound. Simplify $\frac{6}{8}$ to get $\frac{3}{4}$ pound.
- Choice A is correct.** (4.M.2) Since 1 cup = 8 fluid ounces, divide: $120 \div 8 = 15$ cups. The answer is **15** cups.



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Math Detective at Work

Hi, Math Detective!

◇ You did such a great job! You finished 9 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

Whether used at home, in the classroom, or for independent review, this book provides meaningful practice that helps students grow stronger with every test.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement

★ **CONFIDENCE IN MATH.
SUCCESS FOR LIFE.**

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ Mathematical Reasoning
- ✓ And More!



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