

4

Indiana I LEARN

GRADE 4

MATH

PRACTICE TESTS



5 FULL-LENGTH
PRACTICE TESTS



Standards-Aligned Review with
Mixed Practice and Answer Key



STANDARDS-ALIGNED
REVIEW



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED

$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



4 Indiana ILEARN Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome, Indiana Math Explorer!

Four steady rounds on the Hoosier State math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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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1) Isha ran 0.86 miles. Patel ran 0.68 miles. Who ran farther?

- A. Isha (0.86 miles) C. They ran the same distance
 B. Patel (0.68 miles) D. Patel ran much farther

2) Look at the place-value chart below. What is the value of the digit in the tens place?

Thousands	Hundreds	Tens	Ones
2	3	7	4

- A. 7 C. 700
 B. 7,000 D. 70

3) Which shows the same value in all three forms?

- A. $\frac{8}{10}$, 0.8, 0.08 C. $\frac{8}{100}$, 0.8, 8 hundredths
 B. $\frac{80}{100}$, 0.8, 0.80 D. $\frac{8}{10}$, 0.10, $\frac{80}{100}$

4) A baker divides 6 equal portions, each worth $\frac{1}{12}$ of the cake. What fraction of the cake is 6 portions?

- A. $\frac{1}{12}$ C. $\frac{12}{6}$
 B. $\frac{6}{12}$ D. $\frac{1}{6}$

5) A repeating pattern is: circle, square, circle, square, circle, square. What is the 10th shape?

- A. Circle C. Triangle
 B. Rectangle D. Square



6) Round 23,562 to the nearest thousand.

- A. 23,000 C. 23,600
 B. 20,000 D. 24,000

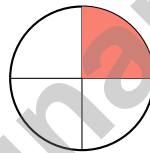
7)

$$\frac{1}{4} \text{ m}$$

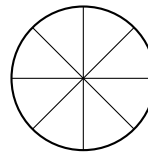
This tile represents $\frac{1}{4}$ meter. How many meters do you have with 6 of these tiles?



8) Two circles are the same size. The first circle shows $\frac{1}{4}$ shaded. How much of the second circle needs to be shaded to show an equivalent fraction with 8 equal parts?



Circle 1



Circle 2

- A. 1 part C. 3 parts
 B. 4 parts D. 2 parts
- 9) A pizza box is a rectangle with a length of 14 inches and a width of 14 inches. What is the area of the box?

- A. 196 sq in C. 56 sq in
 B. 228 sq in D. 28 sq in



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10) Subtract: $4\frac{2}{6} - 1\frac{5}{6}$.

11) A park has 50 trees. Another park has 2 times as many trees. How many trees does the other park have?

A. 52

C. 150

B. 75

D. 100

12) Which expression shows $\frac{3}{5}$ as a sum of unit fractions?

A. $\frac{1}{5} + \frac{1}{5}$

C. $\frac{3}{5} + \frac{3}{5} + \frac{3}{5}$

B. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

D. $\frac{3}{5}$

13) How many square tiles fit in a grid that is 26 units long and 12 units wide?

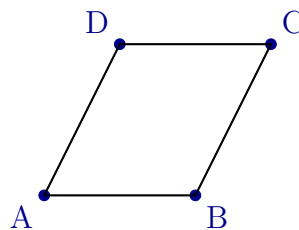
A. 200

C. 262

B. 352

D. 312

14) How many vertices are shown in this figure?



A. 2 vertices

C. 4 vertices

B. 3 vertices

D. 5 vertices



1) What is $\frac{2}{3}$ as a sum of unit fractions?

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

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

C. $\frac{2}{3} + \frac{1}{3}$

D. $\frac{3}{3}$

2) A single jump rope segment is $\frac{2}{4}$ yard long. How long are 5 segments?

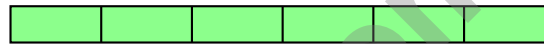
A. $\frac{5}{4}$ yards (or $1\frac{1}{4}$ yards)

B. $\frac{10}{4}$ yards (or $2\frac{1}{2}$ yards)

C. $\frac{10}{20}$ yard

D. $\frac{2}{20}$ yard

3) Solve: $\frac{1}{6} + \frac{4}{6} + \frac{1}{6} = ?$



$$\frac{1}{6} + \frac{4}{6} + \frac{1}{6} = ?$$

A. $\frac{6}{18}$

B. $\frac{6}{6}$ or 1

C. $\frac{4}{6}$

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

4) What is $2 \times \frac{4}{5}$?

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

B. $\frac{6}{5}$

C. $\frac{4}{10}$

D. $\frac{8}{5}$ or $1\frac{3}{5}$

5) Find $\frac{5}{7} + \frac{3}{7}$ as a mixed number.



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5 bars, each $\frac{1}{3}$ yard

1)

Each bar above is $\frac{1}{3}$ yard. What is the total length of all 5 bars?

- A. $\frac{5}{3}$ yards (or $1\frac{2}{3}$ yards) C. $\frac{1}{3}$ yard
 B. $\frac{5}{15}$ yard D. 5 yards

2) Look at the place-value table below.

Tenths	Hundredths	Decimal
6	0	0.60
6	2	?

What decimal has 6 tenths and 2 hundredths?

- A. 0.26 C. 0.206
 B. 0.62 D. 6.02

3) Olivia has $2\frac{4}{8}$ hours of free time. She spends $1\frac{2}{8}$ hours playing games. How much free time does she have left?

- A. $1\frac{2}{8}$ C. $2\frac{2}{8}$
 B. $3\frac{6}{8}$ D. $1\frac{6}{8}$

4) A recipe uses $\frac{3}{4}$ cup of flour and $\frac{2}{3}$ cup of sugar. Which amount is greater?

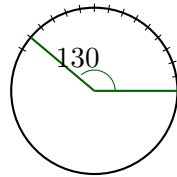


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5) What is $4 \times \frac{3}{8}$ as a mixed number?

- A. $\frac{3}{32}$
- B. $\frac{4}{8}$

- C. $\frac{12}{8}$ or $1\frac{1}{2}$
- D. $\frac{12}{32}$



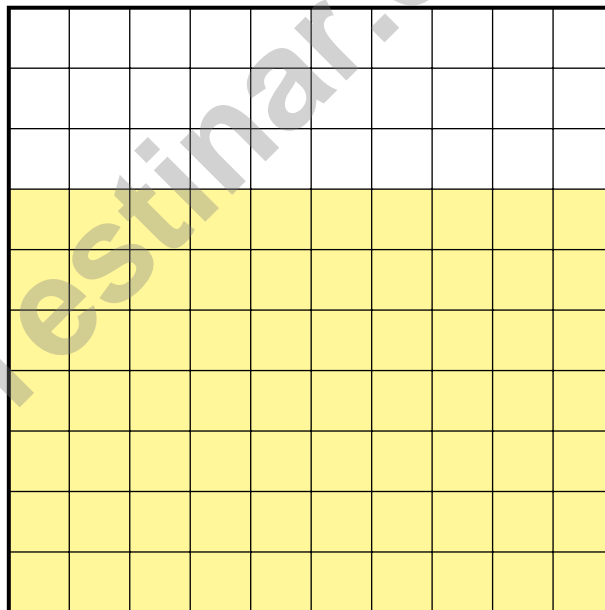
6)

This angle measures 130 degrees. How many one-degree angles does it contain?

- A. 65 one-degree angles
- B. 130 one-degree angles

- C. 260 one-degree angles
- D. 13 one-degree angles

7) Decimal grids show place value. Which decimal matches the shaded grid?



Shaded: 70 out of 100

- A. 0.07
- B. 0.70

- C. 7.0
- D. 0.77

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

- 1) **Choice A is correct.** (4.NS.3) Compare the tenths place: $8 > 6$, so $0.86 > 0.68$. Isha ran farther.
- 2) **Choice D is correct.** (4.NS.7) Looking at the chart, the digit in the tens place is 7. Its value is $7 \times 10 = 70$. ✓
- 3) **Choice B is correct.** (4.NS.3) Option B shows all the same value: $\frac{80}{100}$, 0.8, and 0.80 are all equal. The trailing zero doesn't matter.
- 4) **Choice B is correct.** (4.NS.2) Each portion is worth $\frac{1}{12}$ of the cake. With 6 portions, we have $6 \times \frac{1}{12} = \frac{6}{12}$ of the cake.
- 5) **Choice D is correct.** (4.CA.4) The pattern repeats every 2 shapes: circle, square, circle, square, ... Position 10 is even, so it's a square. ✓
- 6) **Choice D is correct.** (4.NS.7) We're rounding to the nearest thousand. Look at the hundreds digit: 5. Since $5 \geq 5$, we round UP! The thousands digit changes from 3 to 4, giving us **24,000**. ✓
- 7) **The correct answer is $\frac{6}{4}$.** (4.NS.2) With 6 tiles, each $\frac{1}{4}$ meter long, we have $6 \times \frac{1}{4} = \frac{6}{4} = 1\frac{1}{2}$ meters total.
- 8) **Choice D is correct.** (4.NS.3) Circle 1 shows $\frac{1}{4}$. Circle 2 has 8 parts. Multiply numerator and denominator by 2: $\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}$. Shade 2 parts.
- 9) **Choice A is correct.** (4.M.4) Pizza box area = $14 \times 14 = 196$ sq in.
- 10) **The correct answer is $2\frac{3}{6}$.** (4.CA.6) Since $\frac{2}{6} < \frac{5}{6}$, regroup: $4\frac{2}{6} = 3\frac{8}{6}$. Subtract the wholes: $3 - 1 = 2$. Subtract the fractions: $\frac{8}{6} - \frac{5}{6} = \frac{3}{6}$. The answer is $2\frac{3}{6}$.
- 11) **Choice D is correct.** (4.CA.5) "2 times as many" means multiply by 2: $2 \times 50 = 100$ trees.
- 12) **Choice B is correct.** (4.CA.6) A unit fraction always has a numerator of 1. So $\frac{3}{5}$ breaks down into three copies of $\frac{1}{5}$: $\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$.
- 13) **Choice D is correct.** (4.CA.1) Distribute and add: $26 \times (10 + 2) = 260 + 52 = 312$ tiles.
- 14) **Choice C is correct.** (4.G.2) A vertex is a corner where two sides come together. This four-sided figure has four corners, so it has four vertices.
- 15) **Choice A is correct.** (4.NS.7) Add with regrouping: ones $7 + 5 = 12$ (write 2, carry 1), tens $4 + 8 + 1 = 13$ (write 3, carry 1), hundreds $3 + 2 + 1 = 6$, thousands $2 + 3 = 5$. The sum is **5,632**.
- 16) **Choice B is correct.** (4.CA.4) To measure an angle correctly, you must place one ray—called the baseline ray—right along the straight edge of the protractor, lined up with the 0° mark. This is your starting point for reading the other ray. The answer is along the straight edge at the 0-degree mark.
- 17) **Choice D is correct.** (4.G.3) Right angle markers at all four corners show that this figure has four right angles. A quadrilateral with four right angles is a rectangle. The answer is **D**.
- 18) **The correct answer is B, C.** (4.CA.1) B (word form) and C (expanded) both equal 24,365. A and D both equal 24,356 (wrong). E has ones digit 6 instead of 5 ✓
- 19) **Choice C is correct.** (4.NS.2) Noah skips in eighths: $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}$. After 3 skips, he's at $\frac{3}{8}$.
- 20) **Choice A is correct.** (4.M.3) Mia weighs 42 pounds and her dog weighs 18 pounds. Subtract to compare: $42 - 18 = 24$ pounds. Mia weighs **24** pounds more.
- 21) **The correct answer is 4.** (4.G.2) For any regular polygon, the number of lines of symmetry always equals the number of sides. So if it has 4 symmetry lines, it must have **4** sides (a square).
- 22) **Choice C is correct.** (4.G.2) The hour hand moves **30°** per hour because $360^\circ \div 12 \text{ hours} = 30^\circ$.
- 23) **Choice D is correct.** (4.CA.2) Two steps! Step 1: total books from all bundles: $9 \times 15 = 135$ books. Step 2: divide equally among 5 libraries: $135 \div 5 = 27$ books each.
- 24) **Choice B is correct.** (4.DA.2) Count X marks for measurements greater than $\frac{2}{4}$ inch. At $\frac{4}{4}$ inch: 1 mark. At $\frac{6}{4}$ inch: 2 marks. Total: $1 + 2 = 3$ marks.
- 25) **Choice A is correct.** (4.CA.6) A bike ride covered distance over two days. Add the distances: $3\frac{3}{6} + 2\frac{2}{6} = 5\frac{5}{6}$ miles total.
- 26) **Choice B is correct.** (4.CA.5) The diagram shows the ramp angle split into two equal parts. If half is 36° , multiply: $36^\circ \times 2 = 72^\circ$.



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Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 4 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

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- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

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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.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
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