

3

Indiana ILEARN

GRADE 4

MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**5 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
QUESTIONS**



**ANSWER KEY
INCLUDED**

$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



3 Indiana ILEARN Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, Indiana ILEARN strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome, Indiana Math Explorer!

Three steady rounds on the Hoosier State math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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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& answers

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1) All the factors of 24 are:

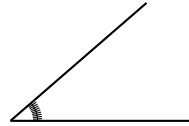
A. 1, 2, 3, 4, 8, 12, 24

B. 1, 2, 4, 6, 8, 12, 24

C. 2, 3, 4, 6, 8, 12, 24

D. 1, 2, 3, 4, 6, 8, 12, 24

2)



This angle has tick marks from 0 to 40 degrees. What is the measure of the angle?

A. 40°

B. 41°

C. 39°

D. 80°

3) A growing pyramid pattern is shown:



Figure 1

Figure 2

Figure 3

How many circles are in Figure 5?

A. 10

B. 12

C. 15

D. 18

4) Which comparison is correct?

A. $456,200 > 456,300$

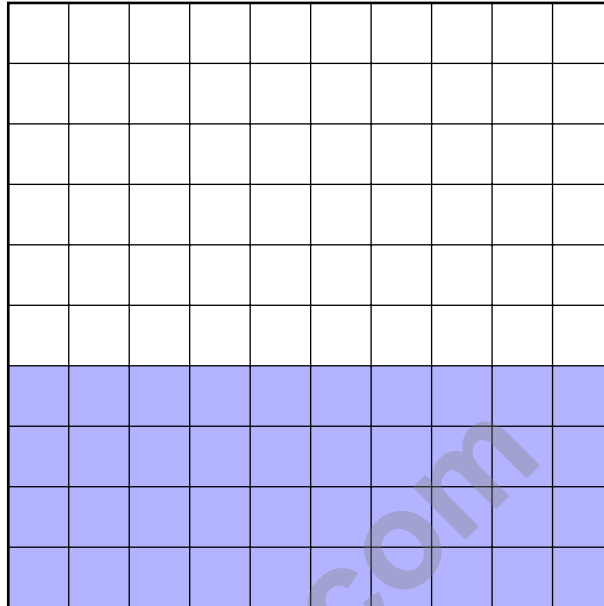
B. $345,678 < 345,667$

C. $189,450 = 189,451$

D. $234,567 < 234,576$



5) Look at the grid below. The shaded squares represent a fraction.



Which fraction and decimal both represent the shaded amount?

- A. $\frac{4}{10}$ and 0.04
 B. $\frac{40}{100}$ and 0.4

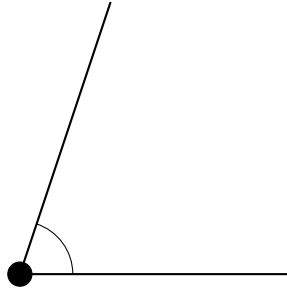
- C. $\frac{4}{100}$ and 0.4
 D. $\frac{40}{10}$ and 4.0

6) Round 26,734 to the nearest hundred.



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7)



A straight angle measures 180 degrees. Is this angle more or less than 180 degrees?

- A. More than 180 degrees C. Less than 180 degrees
 B. Exactly 180 degrees D. Cannot tell from the picture

8) Which attribute is true for a square?

- A. Four equal sides and four right angles C. One pair of parallel sides
 B. Three angles and three sides D. Four different side lengths

9) An array has 27 rows and 14 columns. How many items are in the array?

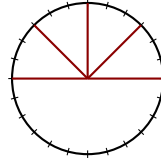
- A. 378 C. 324
 B. 348 D. 405

10) Is $\frac{3}{5}$ greater than or less than $\frac{1}{2}$?

- A. Greater than $\frac{1}{2}$ C. Equal to $\frac{1}{2}$
 B. Less than $\frac{1}{2}$ D. Cannot determine



7) How many degrees greater than 90° is 120° ?



8)

A full circle is shown with several rays drawn inside. How many degrees are in the full circle?

A. 90°

C. 360°

B. 180°

D. 720°

9) A pizza is cut into 6 equal slices. Max ate 2 slices. Another pizza was cut into 3 equal slices, and Cole ate 1 slice. If both pizzas started the same size, did Max and Cole eat equivalent amounts?

A. Yes, both ate $\frac{1}{3}$

C. No, Max ate more

B. Yes, both ate $\frac{1}{2}$

D. No, Cole ate more

10) A gift was wrapped with ribbon. The first wrap used $2\frac{3}{8}$ meters and the second wrap used $1\frac{1}{8}$ meters. What is the total ribbon used?

A. $3\frac{4}{8}$

C. $4\frac{1}{8}$

B. $1\frac{2}{8}$

D. $2\frac{2}{8}$



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1) Which fraction equals $6 \times \frac{1}{8}$?

A. $\frac{1}{8}$

B. $\frac{6}{8}$

C. $\frac{6}{48}$

D. $\frac{1}{48}$

2) A bakery makes 25 trays of cookies. Each tray holds 28 cookies. How many cookies are made?

 A. 600 cookies B. 800 cookies C. 750 cookies D. 700 cookies

3) Kai has 9 toy trucks. His brother has 2 times as many. How many trucks does his brother have?

 A. 11 B. 9 C. 7 D. 18

4) A line plot shows cat weights in eighths of a pound: $\frac{4}{8}$, $\frac{6}{8}$, $\frac{4}{8}$, $\frac{4}{8}$, $\frac{5}{8}$. Which weight has the most X marks?

 A. $\frac{4}{8}$ lb B. $\frac{5}{8}$ lb C. $\frac{6}{8}$ lb D. $\frac{7}{8}$ lb

5) A full turn around a circle measures how many degrees?

 A. 90° B. 180° C. 270° D. 360° 

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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 D is correct.** (4.CA.4) Walk through the factor pairs: 1×24 , 2×12 , 3×8 , 4×6 . Combine both sides of each pair: **1, 2, 3, 4, 6, 8, 12, 24**. *Tip:* the pairs “meet in the middle”—once they start repeating, you’ve found them all.
- Choice A is correct.** (4.G.2) The angle extends from 0° to 40° , giving us **40°** .
- Choice C is correct.** (4.CA.4) Build a pyramid: Figure 1 = 1, Figure 2 = $1 + 2 = 3$, Figure 3 = $1 + 2 + 3 = 6$. Figure 5 = $1 + 2 + 3 + 4 + 5 = 15$ circles.
- Choice D is correct.** (4.CA.1) Looking at B: thousands and hundreds match. Tens place: $6 < 7$, so $234,567 < 234,576$ is true. Others are false ✓
- Choice B is correct.** (4.NS.3) The grid shows 40 shaded squares out of 100 total. This is $\frac{40}{100} = \frac{4}{10} = 0.4$.
- The correct answer is 26,700.** (4.NS.7) We’re rounding to the nearest hundred. Look at the tens digit: 3. Since $3 < 5$, round DOWN. The answer is **26,700**. ✓
- Choice C is correct.** (4.G.2) This angle is not a straight line, so it measures less than 180 degrees. It is much smaller than a straight angle.
- Choice A is correct.** (4.G.3) A square has two essential properties: four sides of equal length and four right angles at each corner. This combination of properties is unique to squares. The answer is **A**.
- Choice A is correct.** (4.CA.1) Break 14 into parts: $27 \times (10 + 4) = 270 + 108 = \mathbf{378}$ items.
- Choice A is correct.** (4.NS.3) Compare to $\frac{1}{2}$: Convert to tenths: $\frac{3}{5} = \frac{6}{10}$ and $\frac{1}{2} = \frac{5}{10}$. Since $6 > 5$, $\frac{3}{5} > \frac{1}{2}$.
- The correct answer is $\frac{2}{4}$.** (4.DA.2) Count each measurement: $\frac{1}{4}$ in appears 1 time, $\frac{2}{4}$ in appears 3 times (the most!), and $\frac{3}{4}$ in appears 2 times. So $\frac{2}{4}$ in is the mode.
- Choice B is correct.** (4.NS.7) In option B, $6,007 - 3,256$, the tens place is zero but we must subtract 5. This requires regrouping across the zero.
- Choice B is correct.** (4.CA.6) Same denominator, same rule: add the numerators ($4 + 5 = 9$), keep the denominator. Answer: $\frac{9}{10}$.
- Choice B is correct.** (4.NS.2) A toy car travels $\frac{2}{10}$ meter in one roll. After 7 rolls, it travels $7 \times \frac{2}{10} = \frac{14}{10}$ meters.
- Choice A is correct.** (4.NS.3) Compare tenths: $5 > 3$. Among the two with tenths = 5, compare hundredths: $5 > 3$, so $0.55 > 0.53$. Among the two with tenths = 3, compare hundredths: $5 > 3$, so $0.35 > 0.33$.
- Choice D is correct.** (4.CA.5) “4 times as much” means multiply. The game costs $\$8 \times 4 = \32 .
- Choice B is correct.** (4.M.2) Since 1 pint = 16 fluid ounces, divide: $64 \div 16 = 4$ pints. The answer is **4** pints.
- The correct answer is A, D.** (4.CA.5) B is wrong ($125^\circ - 50^\circ = 75^\circ$). C is wrong ($360^\circ \div 4 = 90^\circ$). E is wrong ($90^\circ - 30^\circ = 60^\circ$).
- Choice C is correct.** (4.NS.7) A digit 2 in the thousands place is worth 2,000; a 2 in the tens place is worth 20. The ratio is $2,000 \div 20 = \mathbf{100}$. ✓
- Choice A is correct.** (4.M.3) There are 240 ounces of rice to divide equally into 4 bins. Divide: $240 \div 4 = 60$ ounces. Each bin gets **60** ounces.
- Choice B is correct.** (4.CA.4) The key to reading a protractor is to use the scale that starts at 0° on the same side where your angle opens. When an angle opens toward the right, that side shows 0° —read the outer scale. This matches where the angle is heading. The answer is use the outer scale.
- Choice B is correct.** (4.NS.2) We take 8 copies of $\frac{1}{4}$. Multiply: $8 \times \frac{1}{4} = \frac{8 \times 1}{4} = \frac{8}{4} = 2$. The answer is **2**.
- Choice A is correct.** (4.CA.6) To check a decomposition, add the numerators and keep the same denominator. $\frac{6}{12} + \frac{5}{12} = \frac{6+5}{12} = \frac{11}{12}$ ✓. *Note:* this is one of several valid ways to decompose $\frac{11}{12}$ —you could also use $\frac{4}{12} + \frac{7}{12}$ or $\frac{1}{12} + \frac{10}{12}$, etc.
- Choice A is correct.** (4.CA.6) Both pieces are used out of 2 equal pieces, which is $\frac{2}{2}$. As a sum of unit fractions: $\frac{1}{2} + \frac{1}{2}$.
- Choice C is correct.** (4.CA.2) Two steps! Step 1: equal groups means divide: $36 \div 3 = 12$ coins in the group Noah keeps. Step 2: subtract what he spends: $12 - 5 = 7$ coins left.
- Choice C is correct.** (4.CA.2) Long division: $4 \div 5 = 0$ r4, bring down the 1 to get $41 \div 5 = 8$ r1, bring down the 2 to get $12 \div 5 = 2$ r2, bring down the 5 to get $25 \div 5 = 5$. Answer: **825**.



Hi, Math Athlete!

◇ 3 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE TODAY. SUCCEED TOMORROW!

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

With 3 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.

PERFECT FOR:

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

★ CONFIDENCE TODAY.
SUCCESS TOMORROW!

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.



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
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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