

# 9

$$256 \div 8 = 32$$

# Illinois IAR

$$48 \times 7 = 336$$

## 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**



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



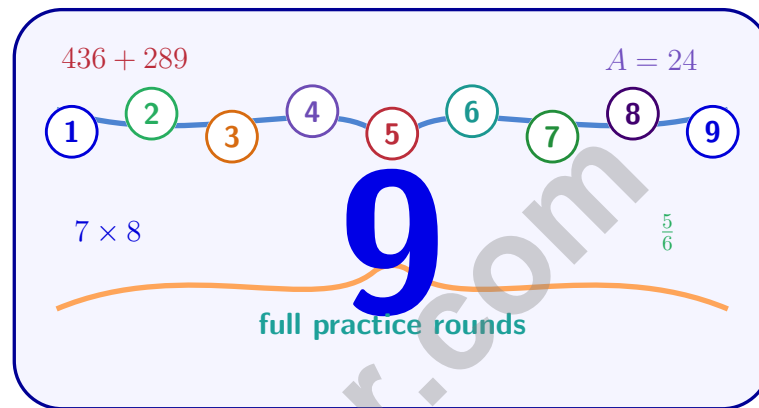
$$725 - 358 = 367$$

PREPARE  
**PRACTICE**  
SUCCEED  
PERFORM

**PRACTICE TODAY.  
SUCCEED TOMORROW.**

# 9 Illinois IAR Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Nine complete 30-question Grade 4 practice rounds for IAR, built around prairie roads, skyline views, and strong number sense, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Illinois Math Explorer!

Nine steady rounds on the Prairie State math route

This book gives you nine full Grade 4 practice tests for IAR. Each round uses prairie roads, skyline views, and strong number sense to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Illinois 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 Illinois IAR 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 Prairie 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 IAR 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.



Scan me!  
For more practice  
& answers

# Table of Contents

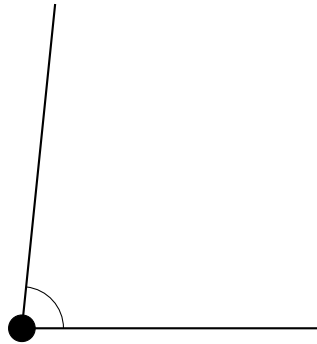
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- 1) Ava read 4,623 pages in a book series. Round to the nearest hundred to estimate pages read.
- A. 4,600                       C. 4,700  
 B. 4,620                       D. 5,000
- 2) What is  $7 \times \frac{1}{5}$  as a mixed number?
- A.  $\frac{1}{35}$                        C.  $2\frac{2}{5}$   
 B.  $\frac{7}{1}$                        D.  $\frac{7}{5}$  or  $1\frac{2}{5}$
- 3) A straight angle of  $180^\circ$  is divided into four equal angles. What is the measure of each angle?
- A.  $45^\circ$                        C.  $36^\circ$   
 B.  $90^\circ$                        D.  $60^\circ$
- 4) How does 0.4 compare to 0.40?
- A.  $0.4 < 0.40$                        C.  $0.4 = 0.40$   
 B.  $0.4 > 0.40$                        D.  $0.4 = 0.04$



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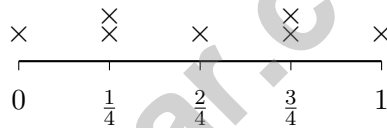
5)



This angle measures 84 degrees. Which statement is true?

- A. It is less than a right angle       C. It is more than a right angle  
 B. It is exactly a right angle       D. It is a straight angle

6) Here is a line plot with measurements in fourths:



What is the range (difference between highest and lowest values) on this line plot?

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

7) Which expression equals  $\frac{7}{10}$ ?

- A.  $3 \times \frac{1}{10}$        C.  $10 \times \frac{1}{7}$   
 B.  $7 \times \frac{1}{10}$        D.  $\frac{1}{7} \times \frac{1}{10}$



8) Jasmine reads 10 pages. Marcus reads 2 times as many pages. How many pages do they read together?

A. 20

C. 15

B. 10

D. 30

9) Which inequality is correct?

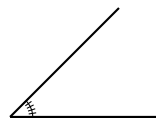
A.  $\frac{6}{12} < \frac{9}{12}$

C.  $\frac{6}{12} = \frac{9}{12}$

B.  $\frac{6}{12} > \frac{9}{12}$

D.  $\frac{9}{12} < \frac{6}{12}$

10)



This angle shows tick marks at intervals. What is the measure of the angle?

A.  $45^\circ$

C. 36 one-degree angles

B.  $9^\circ$

D. 54 one-degree angles

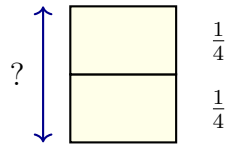
11) A baker has  $3\frac{2}{5}$  pounds of almonds. She uses  $2\frac{1}{5}$  pounds in a recipe. How many pounds of almonds are left?

12) Complete the number sentence:  $\frac{3}{5} = \frac{?}{15}$

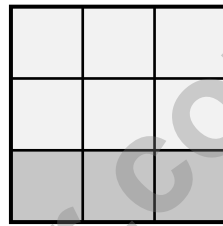


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- 1) A stacked bar model shows 2 bars of  $\frac{1}{4}$  stacked on top of each other. What is the total height?



- A.  $\frac{1}{4}$ 
 C.  $\frac{2}{8}$   
 B.  $\frac{2}{4}$ 
 D.  $\frac{1}{8}$



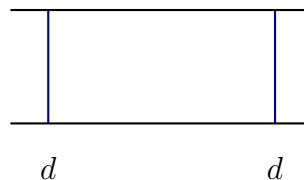
9 equal pieces

2)

A chocolate bar has 9 pieces. Each piece is  $\frac{1}{9}$  of the bar. If you eat 3 pieces, what fraction of the bar do you eat?

- A.  $\frac{3}{27}$  of the bar
  C.  $\frac{1}{27}$  of the bar  
 B.  $\frac{3}{9}$  of the bar (or  $\frac{1}{3}$  of the bar)
  D.  $\frac{6}{9}$  of the bar

- 3) In this diagram, the two marked lines are parallel. Which statement is correct?

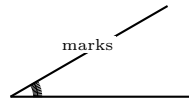


- A. The distance between the lines always remains the same
  C. The lines will meet on the right  
 B. The lines get closer at the top
  D. The distance between them increases



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4)



This angle is marked from  $0^\circ$  to  $30^\circ$ . How many one-degree angles does the angle contain?

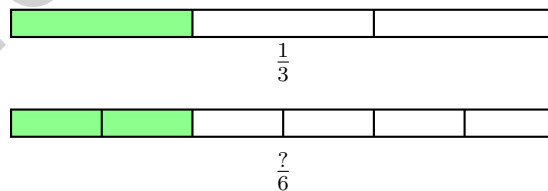
- A. 29 one-degree angles                       C. 31 one-degree angles  
 B. 30 one-degree angles                       D. 60 one-degree angles

5) A bakery sold 56 donuts on Monday. On Tuesday, the bakery sold 7 times as many donuts. How many donuts did the bakery sell on Tuesday?

6) A rectangle has an area of 36 square inches. If the length is 9 inches, what is the width?

- A. 3 in     C. 5 in  
 B. 4 in     D. 6 in

7) Look at the two fraction bars. Both bars are the same length.



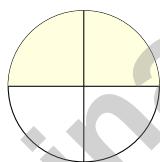
What number should replace the question mark?

- A. 1     C. 3  
 B. 4     D. 2

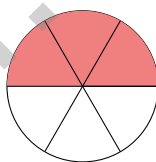
1) Which shows the completed standard algorithm, including the final product, for  $37 \times 26$ ?

<p><b>A.</b></p> $\begin{array}{r} 37 \\ \times 26 \\ \hline 222 \\ +740 \\ \hline \end{array}$	<p><b>B.</b></p> $\begin{array}{r} 37 \\ \times 26 \\ \hline 962 \\ +740 \\ \hline \end{array}$
<p><b>C.</b></p> $\begin{array}{r} 37 \\ \times 26 \\ \hline 222 \\ + 74 \\ \hline \end{array}$	<p><b>D.</b></p> $\begin{array}{r} 37 \\ \times 26 \\ \hline 222 \\ +740 \\ \hline 962 \end{array}$

2) Two circles are the same size. Circle 1 shows  $\frac{2}{4}$  shaded. Circle 2 shows  $\frac{3}{6}$  shaded. Which statement is true?



Circle 1:  $\frac{2}{4}$



Circle 2:  $\frac{3}{6}$

- |  |  |
|--|--|
| <p><input type="checkbox"/> A. Circle 1 is more shaded</p> <p><input type="checkbox"/> B. Circle 2 is more shaded</p> <p><input type="checkbox"/> C. Both circles are equally shaded</p> | <p><input type="checkbox"/> D. Cannot compare circles of different sizes</p> |
|--|--|

3) An angle is labeled  $77^\circ$ . What is its measure in degrees?



4) A farmer has 60 carrots. The farmer has 6 times as many carrots as a gardener. How many carrots does the gardener have?

A. 6

C. 54

B. 66

D. 10

5) Find  $4 \times \frac{1}{3}$ .

6) A train travels 75 kilometers per hour. If it travels for 5 hours, how far does it go?

A. 80 km

C. 375 km

B. 150 km

D. 380 km

7) What angle does the minute hand sweep in 30 minutes?

A.  $90^\circ$

C.  $180^\circ$

B.  $120^\circ$

D.  $270^\circ$

8) Look at the base-ten model below. What number does it represent?



A. 6,142

C. 1,462

B. 4,612

D. 4,162



Scan me!  
For more practice  
& answers

## 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 A is correct.** (4.NBT.A.3) We're rounding to the nearest hundred. Look at the tens digit: 2. Since  $2 < 5$ , we round DOWN. The hundreds digit stays at 6, so Ava read about **4,600** pages. ✓
- Choice D is correct.** (4.NF.B.4) We take 7 copies of  $\frac{1}{5}$ . Multiply:  $7 \times \frac{1}{5} = \frac{7 \times 1}{5} = \frac{7}{5} = 1\frac{2}{5}$ . The answer is  **$1\frac{2}{5}$** .
- Choice A is correct.** (4.MD.C.7) Split the straight angle into 4 equal parts:  $180^\circ \div 4 = 45^\circ$ .
- Choice C is correct.** (4.NF.C.5) A trailing zero doesn't change the value. Both 0.4 and 0.40 represent the same amount: 4 tenths, or 40 hundredths.
- Choice A is correct.** (4.MD.C.5) Since 84 degrees is less than 90 degrees (a right angle), it is acute.
- Choice D is correct.** (4.MD.B.4) The lowest value on the line plot is 0 inch and the highest is 1 inch. The range is  $1 - 0 = 1$  inch.
- Choice B is correct.** (4.NF.B.4) The numerator 7 tells us we have 7 copies of the unit fraction. The denominator 10 tells us the unit fraction is  $\frac{1}{10}$ . So  $\frac{7}{10} = 7 \times \frac{1}{10}$ .
- Choice D is correct.** (4.OA.A.1) Step 1: find Marcus's pages:  $10 \times 2 = 20$ . Step 2: add Jasmine's pages for the total:  $10 + 20 = 30$  pages together.
- Choice A is correct.** (4.NF.A.1) Same denominator, so compare numerators. Since  $6 < 9$ , we have  $\frac{6}{12} < \frac{9}{12}$ .
- Choice A is correct.** (4.MD.C.5) The tick marks divide the angle, and it reaches the  $45^\circ$  mark, so the measure is  **$45^\circ$** .
- The correct answer is  $1\frac{1}{5}$ .** (4.NF.B.3) 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.
- The correct answer is 9.** (4.NF.A.1) The denominator changes from 5 to 15. What times 5 makes 15?  $5 \times 3 = 15$ . So multiply the numerator by 3:  $3 \times 3 = 9$ .
- Choice C is correct.** (4.NBT.A.1) In 3,817, the digit 8 is in the hundreds place, so it represents **8** hundreds (or 800). ✓
- Choice D is correct.** (4.OA.A.2) The longer bar (24 apples) is 4 equal pieces, each one orange-group's size. To find one piece, divide:  $24 \div 4 = 6$  oranges.
- Choice B is correct.** (4.G.A.3) A leaf usually has a center vein running from tip to stem, with identical bumpy edges on both left and right. A vertical line down that center is a perfect line of symmetry. The answer is **1** line of symmetry.
- The correct answer is  $3\frac{7}{8}$ .** (4.NF.B.3) Add the wholes:  $2 + 1 = 3$ . Add the fractions:  $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ . The sum is  **$3\frac{7}{8}$** . Since the fractions add to less than a whole, no regrouping is needed.
- The correct answer is B, D.** (4.MD.C.5) Choice B: A half turn is  $\frac{1}{2} \times 360^\circ = 180^\circ$  ✓. Choice D: The minute hand from 12 to 6 is a half turn, also  $180^\circ$  ✓. Choice A:  $\frac{1}{4} \times 360^\circ = 90^\circ$ . Choice C:  $\frac{2}{3} \times 360^\circ = 240^\circ$ . Choice E: 12 to 3 is one-quarter, or  $90^\circ$ .
- Choice C is correct.** (4.OA.B.4) Count circles: Figure 1 has 3, Figure 2 has 5, Figure 3 has 7. Each time adds 2 circles. So Figure 4 has  $7 + 2 = 9$  circles.
- Choice C is correct.** (4.G.A.2) A square combines two key properties: four equal sides (like a rhombus) and four right angles (like a rectangle). This makes a square a special quadrilateral. The answer is **C**.
- Choice A is correct.** (4.NF.B.4)  $3 \times \frac{2}{5}$  means 3 groups of  $\frac{2}{5}$ . The numerator is  $3 \times 2 = 6$ , not  $3 + 2$ . So the correct answer is  $\frac{6}{5}$ .
- Choice B is correct.** (4.NF.C.5) Forty-five hundredths is written as 0.45.
- Choice A is correct.** (4.NF.B.3) Orange arrow jumps to 1 whole ( $\frac{6}{6}$ ), then purple arrow adds  $\frac{3}{6}$ :  $6 + 3 = 9$ . We reach  $\frac{9}{6} = 1\frac{1}{2}$  ✓.
- Choice A is correct.** (4.NF.B.3) The bar is divided into 10 equal parts. The light coral shows  $\frac{9}{10}$  and the dark red shows  $\frac{1}{10}$ . Together:  $9 + 1 = 10$  tenths = **1** whole.
- Choice B is correct.** (4.NF.B.3) A unit fraction always has a numerator of 1. So  $\frac{3}{5}$  breaks down into three copies of  $\frac{1}{5}$ :  $\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$ .



## Hi, Brave Explorer!

◇ What a trip! You explored 9 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 9 tests, you learned a lot. You are a stronger math explorer now. ★

### Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

**Explorer tip:** on test day, use the tools you packed. You have the skills. You are ready!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Trail Guide

# 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.

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- ✓ Test Preparation
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SUCCESS FOR LIFE.**

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Become familiar with test-style questions and formats.



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Measure growth across multiple practice tests.



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