

# 8

# Illinois IAR

# GRADE 4

# PRACTICE TESTS



1

$2 \times 3 = 6$

3

5

$2 \times 3 = 6$

2

4



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

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Illinois IAR Grade 4 Math Practice Tests

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



Eight 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!

Eight steady rounds on the Prairie State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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) Ava wants to convert 5 kilometers to meters. What is the correct answer?

A. 500

C. 50,000

B. 5,000

D. 500,000

2) How many  $\frac{1}{3}$ 's equal  $\frac{2}{3}$ ?

A. 1

C. 3

B. 2

D. 6

3)



This is a right angle. How many one-degree angles make a right angle?

A. 45 one-degree angles

C. 90 one-degree angles

B. 180 one-degree angles

D. 360 one-degree angles

4) A school cafeteria prepares 24 trays of food. Each tray serves 12 people. How many people can be served?



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5) Noah walks  $\frac{2}{8}$  mile each day. How far does he walk in 4 days?

- A.  $\frac{8}{8}$  mile or 1 mile
- B.  $\frac{2}{32}$  mile
- C.  $\frac{6}{8}$  mile
- D.  $\frac{4}{8}$  mile

6) Which statement about the diagram is correct?



- A. Point  $B$  is on segment  $AC$
- B. Point  $A$  is on segment  $BC$
- C. Point  $C$  is on segment  $AB$
- D. All three points are endpoints

7) Use these two place-value charts to compare:

	100,000s	10,000s	1,000s	100s	10s	1s
Chart 1	1	2	8	3	7	2
Chart 2	1	2	8	4	2	3

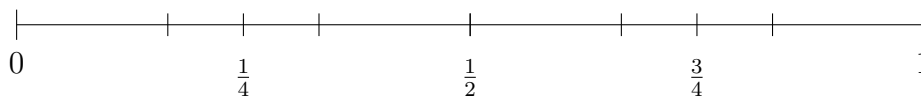
Which is true?

- A.  $128,372 > 128,423$
- B. Cannot determine
- C.  $128,372 = 128,423$
- D.  $128,372 < 128,423$

8) Which angle measure is an acute angle?

- A. 95 degrees
- B. 15 degrees
- C. 135 degrees
- D. 180 degrees

9) Use the number line to find which inequality is correct.



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

10) What is  $100,000 - 67,234$ ?

- A. 32,766                       C. 32,666  
 B. 33,766                       D. 33,666

11) A builder has 100 meters of fencing. He uses 35 meters for one garden and 28 meters for another. How much fencing is left?

- A. 28 m                               C. 63 m  
 B. 37 m                               D. 65 m

12) A quadrilateral has four equal sides and four right angles. How many sides does it have?

13) Which is a multiple of  $\frac{2}{8}$ ?

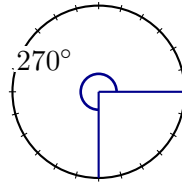
- A.  $\frac{4}{8}$                                        C.  $\frac{5}{8}$   
 B.  $\frac{3}{8}$                                        D.  $\frac{1}{8}$

14) In the number 5,003, what is the value of the digit in the hundreds place?

- A. 3                                       C. 3 hundred  
 B. 50                                       D. 0



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1)

This is a reflex angle measuring 270 degrees. How many one-degree angles make it?

- A. 135 one-degree angles       C. 540 one-degree angles  
 B. 270 one-degree angles       D. 27 one-degree angles

2) How many degrees does a right angle measure?

- A. 45 degrees       C. 120 degrees  
 B. 90 degrees       D. 180 degrees

3) A sequence of multiples is:  $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, ?$ . Which is the next multiple?

- A.  $\frac{3}{9}$        C.  $\frac{3}{16}$   
 B.  $\frac{4}{8}$        D.  $\frac{4}{16}$

4) Which expression does NOT equal  $\frac{7}{10}$ ?

- A. Seven unit fractions of  $\frac{1}{10}$        C.  $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$   
 B.  $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$        D. 7 parts out of 10

5) Which decimal is equal to  $\frac{35}{100}$ ?

- A. 0.035       C. 3.5  
 B. 0.35       D. 35.0



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



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

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

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

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

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

7) A roll of tape has  $\frac{1}{8}$  meter of tape. How much tape is on 6 rolls?

A.  $\frac{1}{48}$  meter

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

B.  $\frac{6}{8}$  meters (or  $\frac{3}{4}$  meters)

D. 6 meters

8) Which is a correct way to decompose  $\frac{10}{12}$ ?

A.  $\frac{5}{12} + \frac{4}{12}$

C.  $\frac{3}{12} + \frac{3}{12} + \frac{3}{12}$

B.  $\frac{4}{12} + \frac{7}{12}$

D.  $\frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12}$

9) Round 34,750 to the nearest thousand.

10) Sam's teacher cut a pie into 4 equal pieces. Sam ate 3 pieces. Which expression shows what Sam ate?

A.  $3 \times \frac{1}{4}$

C.  $3 + 4$

B.  $4 \times \frac{1}{3}$

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



1) Sam has \$0.25. Write this amount as a fraction of a dollar.

2) What is  $34,567 + 12,321$ ?

A. 46,888

C. 47,888

B. 46,788

D. 46,978

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

A. Both legs are equal length

D. It has two parallel sides of different

B. All four sides are equal

lengths

C. It is a rectangle

4) How many  $\frac{1}{8}$ 's are in  $\frac{7}{8}$ ?

A. 1

C. 8

B. 7

D.  $\frac{1}{7}$

5) Two angles are adjacent and form a larger angle. One angle is  $56^\circ$  and the other is  $34^\circ$ . What is the sum?

A.  $90^\circ$

C.  $100^\circ$

B.  $22^\circ$

D.  $56^\circ$





## 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 B is correct.** **(4.MD.A.1)** Since 1 kilometer = 1,000 meters, multiply:  $5 \times 1,000 = 5,000$  m. The answer is **5,000** m.
- 2) **Choice B is correct.** **(4.NF.B.4)** The fraction  $\frac{2}{3}$  tells us we have 2 parts out of 3 equal parts. So we have 2 copies of  $\frac{1}{3}$ .
- 3) **Choice C is correct.** **(4.MD.C.5)** A right angle opens to form a  $90^\circ$  angle, which means it is turned through **90** one-degree angles.
- 4) **The correct answer is 288.** **(4.NBT.B.5)** This is a word problem asking for the total. Calculate:  $24 \times 12 = 24 \times (10 + 2) = 240 + 48 = \mathbf{288}$  people.
- 5) **Choice A is correct.** **(4.NF.B.4)** Noah walks  $\frac{2}{8}$  mile per day for 4 days. Multiply:  $4 \times \frac{2}{8} = \frac{4 \times 2}{8} = \frac{8}{8} = 1$  mile. The answer is **1** mile.
- 6) **Choice A is correct.** **(4.G.A.1)** Look at the diagram: point *B* sits right in the middle between *A* and *C*. Since *B* is between them, it's definitely on segment *AC*.
- 7) **Choice D is correct.** **(4.NBT.A.2)** The first three digits (hundred-thousands, ten-thousands, thousands) match. Hundreds:  $3 < 4$ , so Chart 1 is less ✓
- 8) **Choice B is correct.** **(4.MD.C.6)** An acute angle opens less wide than a right angle—it measures less than  $90^\circ$ . At  $15^\circ$ , this is a very small acute angle. The other choices are all  $90^\circ$  or bigger, so they cannot be acute. The answer is **15** degrees.
- 9) **Choice C is correct.** **(4.NF.A.1)** On the number line,  $\frac{1}{2}$  is at position 6 and  $\frac{3}{4}$  is at position 9. Since  $6 < 9$ , we have  $\frac{1}{2} < \frac{3}{4}$ .
- 10) **Choice A is correct.** **(4.NBT.B.4)** Subtract from 100,000 using regrouping across multiple zeros. The answer is **32,766**.
- 11) **Choice B is correct.** **(4.MD.A.2)** Step 1: Find total fencing used:  $35 + 28 = 63$  meters. Step 2: Subtract from the total:  $100 - 63 = 37$  meters. He has **37** meters of fencing left.
- 12) **The correct answer is 4.** **(4.G.A.2)** By definition, a quadrilateral is a four-sided figure. The answer is **4**.
- 13) **Choice A is correct.** **(4.NF.B.4)** Since  $\frac{4}{8} = 2 \times \frac{2}{8}$ , it's a multiple of  $\frac{2}{8}$ .
- 14) **Choice D is correct.** **(4.NBT.A.1)** In 5,003, the hundreds place has the digit 0. Its value is  $0 \times 100 = \mathbf{0}$ . ✓
- 15) **The correct answer is A, C.** **(4.OA.A.1)** Multiplicative comparisons use the words “times as many.” Choice A (18 is 6 times as many as 3) and choice C (28 is 4 times as many as 7) both fit. Choices B, D, and E use “more” or “less,” which are *additive* comparisons—not multiplicative.
- 16) **Choice A is correct.** **(4.NF.A.1)** Multiply both the numerator and denominator by 50:  $\frac{1}{2} = \frac{1 \times 50}{2 \times 50} = \frac{50}{100}$ .
- 17) **Choice C is correct.** **(4.NF.B.3)** Subtract the wholes:  $5 - 2 = 3$ . Subtract the fractions:  $\frac{4}{6} - \frac{2}{6} = \frac{2}{6}$ . He cut off  **$3\frac{2}{6}$**  meters.
- 18) **The correct answer is  $\frac{3}{8}$ .** **(4.NF.B.3)** Ava ate 3 slices out of 8, which is  $\frac{3}{8}$ . Breaking this into unit fractions:  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ .
- 19) **Choice B is correct.** **(4.NF.C.5)** First, convert  $\frac{6}{10}$  to hundredths:  $\frac{6}{10} = \frac{60}{100}$ . Then add:  $\frac{60}{100} + \frac{20}{100} = \frac{80}{100}$ .
- 20) **Choice D is correct.** **(4.OA.A.2)** Luna's group has 2 rows of 5 pins—“2 times as many.” Multiply:  $2 \times 5 = 10$  pins.
- 21) **Choice C is correct.** **(4.MD.A.3)** Carpet needed =  $14 \times 10 = 140$  sq ft.
- 22) **Choice A is correct.** **(4.NF.B.3)**  $\frac{4}{4}$  is one whole, and  $\frac{1}{4}$  more makes  $1\frac{1}{4}$ . Add:  $4 + 1 = 5$ , so  $\frac{4}{4} + \frac{1}{4} = \frac{5}{4}$  ✓.
- 23) **Choice A is correct.** **(4.NBT.A.3)** In option A (79,999), the thousands digit is  $9 \geq 5$ , so round the ten thousands digit UP from 7 to 8, giving **80,000** ✓.
- 24) **Choice D is correct.** **(4.OA.B.4)** Dots in each figure: Figure 1 has 2, Figure 2 has 4, Figure 3 has 6. Each time adds 2. Figure 5 has  $6 + 2 + 2 = \mathbf{10}$  dots.
- 25) **Choice B is correct.** **(4.MD.C.5)** The blue label marks the vertex—the point where the two sides (rays) meet.
- 26) **Choice C is correct.** **(4.OA.B.4)** Test each: 32 is even (so divisible by 2);  $35 = 5 \times 7$ ;  $39 = 3 \times 13$ . Only 37 has no factors besides 1 and itself—**prime!**



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**A Note From Your Math Friend**

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**Hi, Math Star!**

◇ Wow! You finished 8 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 8 tests, you learned that trying is the most important thing. ★

**Look What You Did!**

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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 Friend

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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

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- ✓ Multiplication & Division
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- ✓ Measurement & Data
- ✓ Perimeter & Area
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