

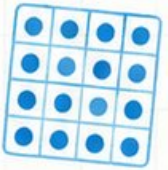
10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



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



Illinois

IAR

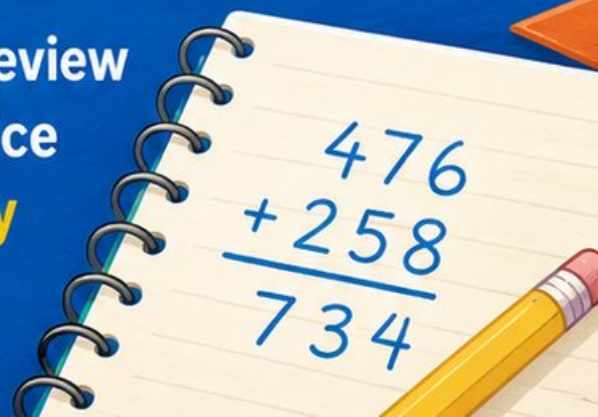
GRADE 4

MATH



PRACTICE TESTS

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



10 Illinois IAR Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Prairie State math route

This book gives you ten 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole Illinois book.
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

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1) What is $\frac{3}{10} + \frac{20}{100} + \frac{5}{100}$?

A. $\frac{28}{110}$

C. $\frac{28}{100}$

B. $\frac{55}{100}$

D. $\frac{55}{110}$

2) Jackson has $3\frac{5}{6}$ cups of juice. He drinks $2\frac{2}{6}$ cups. How much juice remains?

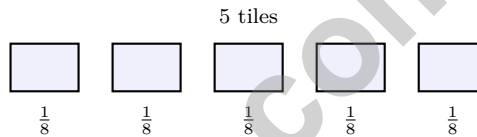
A. $1\frac{3}{6}$

C. $5\frac{7}{6}$

B. $1\frac{2}{6}$

D. $2\frac{3}{6}$

3) A model shows 5 unit-fraction tiles. Each tile is $\frac{1}{8}$. What is the total?



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

C. $\frac{5}{8}$

B. $\frac{3}{8}$

D. $\frac{8}{5}$

4) Mia made 3 sandwiches. Each sandwich uses $\frac{1}{4}$ of a loaf of bread. How much bread did she use altogether?

A. $\frac{1}{12}$ loaf

C. $\frac{4}{3}$ loaf

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

D. $\frac{3}{4}$ loaf

5)

$\frac{1}{4}$ m

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



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6) What is $2,520 \div 7$?

A. 360

C. 350

B. 370

D. 340

7) A baker needs $\frac{7}{12}$ cup of sugar and has $\frac{3}{12}$. How much more is needed?

8) A container holds 2 kilograms of rice. How much rice is in 7 identical containers?

A. 5 kg

C. 14 kg

B. 9 kg

D. 12 kg

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

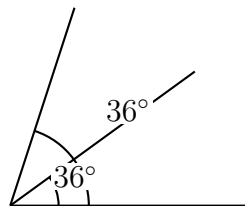
A. 192 sq in

C. 28 sq in

B. 56 sq in

D. 256 sq in

10) A ramp is built at an angle. Half of the ramp's total angle is 36° . What is the measure of the entire ramp's angle?



A. 36°

C. 18°

B. 72°

D. 90°



11) What is $72 \div 8$?

12) A garden is divided into 5 equal rows. Plants are in 3 rows. Write the fraction of the garden with plants as a sum of unit fractions.

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

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

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

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

13) Compare: 7,249 rounded to the nearest hundred vs. 7,251 rounded to the nearest hundred.

 A. Both round to 7,200 B. Both round to 7,300 C. $7,249 \rightarrow 7,200$ and $7,251 \rightarrow 7,300$ D. $7,249 \rightarrow 7,300$ and $7,251 \rightarrow 7,200$

14) Select the TWO relationships that are correct about place values.

 A. The thousands place is 10 times the hundreds place. B. The hundreds place is 10 times the tens place. C. The tens place is 10 times the hundreds place. D. The ones place is 100 times the tens place. E. The thousands place is 10 times the tens place.

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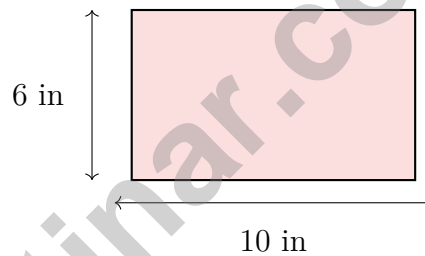
1) Mia bought 2,310 beads to share equally among herself and 4 friends (5 people total). How many beads does each person get?

- A. 462 C. 450
 B. 448 D. 458

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)

What is the perimeter of the rectangle shown above?

- A. 16 in C. 60 in
 B. 32 in D. 48 in

4) Noah had $3\frac{2}{6}$ meters of string. He added $1\frac{4}{6}$ meters more. How long is the string now?

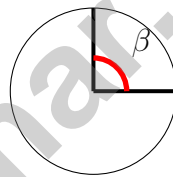
- A. $4\frac{1}{6}$ meters C. 5 meters
 B. $4\frac{5}{6}$ meters D. $5\frac{1}{6}$ meters



- 1) Find $3 \times \frac{5}{6}$ as a mixed number.

- 2) The perimeter of a rectangle is 38 centimeters. The length is 11 centimeters. What is the width?

3)



What is the measure of the angle shown?

- A. 45° C. 135°
 B. 90° D. 180°
- 4) Which letter has no line of symmetry?
- A. *S* C. *U*
 B. *T* D. *W*



5) Jasmine has a ribbon that is $3\frac{2}{4}$ feet long. She cuts off $1\frac{1}{4}$ feet. What is the length of the remaining ribbon?

A. $2\frac{1}{4}$

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

C. $4\frac{3}{4}$

D. $2\frac{3}{4}$

6) Mia bakes 8 cookies. Max bakes 2 times as many cookies as Mia. How many cookies does Max bake?

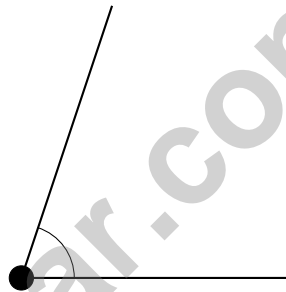
A. 6

B. 8

C. 10

D. 16

7)



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

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

8) Which type of triangle has exactly one right angle and two acute angles?

 A. Acute triangle B. Obtuse triangle C. Right triangle D. Equilateral triangle

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& 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 B is correct.** (4.NF.C.5) First, convert $\frac{3}{10}$ to hundredths: $\frac{3}{10} = \frac{30}{100}$. Now add all three fractions: $\frac{30}{100} + \frac{20}{100} + \frac{5}{100} = \frac{55}{100}$.
- Choice A is correct.** (4.NF.B.3) Jackson starts with juice and drinks some. Subtract the amount he drinks: $3\frac{5}{6} - 2\frac{2}{6} = 1\frac{3}{6}$ cups of juice remain.
- Choice C is correct.** (4.NF.B.4) Five eighths: $5 \times \frac{1}{8} = \frac{5}{8}$.
- Choice D is correct.** (4.NF.B.4) Mia makes 3 sandwiches, each using $\frac{1}{4}$ loaf. Multiply: $3 \times \frac{1}{4} = \frac{3 \times 1}{4} = \frac{3}{4}$ loaf. The answer is $\frac{3}{4}$ loaf.
- The correct answer is $\frac{6}{4}$.** (4.NF.B.4) 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.
- Choice A is correct.** (4.NBT.B.6) Use long division: $2 \div 7 = 0$ r2, bring down the 5 to get $25 \div 7 = 3$ r4, bring down the 2 to get $42 \div 7 = 6$, bring down the 0 to get $0 \div 7 = 0$. The answer is **360**.
- The correct answer is $\frac{1}{3}$.** (4.NF.B.3) The baker needs $\frac{7}{12}$ cup and has $\frac{3}{12}$. What's needed: $7 - 3 = 4$ twelfths more, or $\frac{4}{12}$ (which simplifies to $\frac{1}{3}$).
- Choice C is correct.** (4.MD.A.2) Each container holds 2 kilograms of rice. With 7 containers, multiply: $2 \times 7 = 14$ kg. The total is **14** kilograms.
- Choice A is correct.** (4.MD.A.3) Bookshelf area = $16 \times 12 = 192$ sq in.
- Choice B is correct.** (4.MD.C.7) The diagram shows the ramp angle split into two equal parts. If half is 36° , multiply: $36^\circ \times 2 = 72^\circ$.
- The correct answer is 9.** (4.OA.B.4) Think: "8 times what equals 72?" Since $8 \times 9 = 72$, the answer is **9**. (Knowing this also tells us that 8 and 9 are factors of 72.)
- Choice D is correct.** (4.NF.B.3) The garden has 5 equal rows, and plants are in 3 of them. So the fraction with plants is $\frac{3}{5}$, which breaks into unit fractions: $\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$.
- Choice C is correct.** (4.NBT.A.3) For 7,249: tens digit is $4 < 5$, round DOWN to 7,200 ✓. For 7,251: tens digit is $5 \geq 5$, round UP to 7,300 ✓. A small change (two digits) flips the rounding!
- The correct answer is A, B.** (4.NBT.A.1) A is true: thousands (1,000) \div hundreds (100) = 10. B is true: hundreds (100) \div tens (10) = 10. C, D, E are false. Answer: A and B. ✓
- Choice B is correct.** (4.G.A.3) The letter U looks like a cup with two equal curved sides. A vertical line straight down the middle splits it so both sides match perfectly. The answer is Vertically down the middle.
- Choice D is correct.** (4.OA.B.4) Start at 5 and apply "add 7" twice: $5 \rightarrow 12 \rightarrow 19$. The 3rd term is **19**.
- Choice C is correct.** (4.NBT.A.2) Only C is true: 100,000 = 100,000. The other statements don't work: A and B involve different number sizes, and D reverses the comparison ✓
- Choice D is correct.** (4.NF.A.1) 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.
- Choice A is correct.** (4.MD.C.6) Diego needs a measure between 45° and 60° . At 53° , this falls right in that range. The other choices fall outside or at the edges of his measurement range. The answer is **53** degrees.
- Choice B is correct.** (4.NF.B.3) Subtract the wholes: $4 - 1 = 3$. Subtract the fractions: $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$. She used **$3\frac{2}{5}$** meters.
- Choice B is correct.** (4.G.A.1) A right angle is a special angle that measures exactly 90° . Think of the corner of your notebook — that's a right angle! Acute angles are smaller, obtuse angles are bigger, and straight angles are perfectly flat at 180° .
- Choice B is correct.** (4.MD.C.5) The angle spans from 270° to 300° , measuring 30° .
- Choice B is correct.** (4.NF.C.5) 0.4 is zero point four, which is four tenths: $0.4 = \frac{4}{10}$. That's the answer Mia is looking for.
- Choice D is correct.** (4.OA.A.1) Two steps! Step 1: find the tiles: $6 \times 8 = 48$. Step 2: find the cost: $48 \times \$2 = \96 in all.



Hi, Hero!

◇ Once there was a Grade 4 student who took 10 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

Storyteller tip: on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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

Jay Daie

Your Math Storyteller

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

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