

5

Illinois IAR

Standards-Aligned Review with
Mixed Practice and Answer Key



5 Illinois IAR Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five 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.

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Welcome, Illinois Math Explorer!

Five steady rounds on the Prairie State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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.

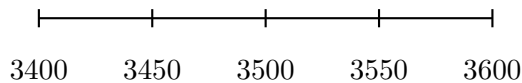


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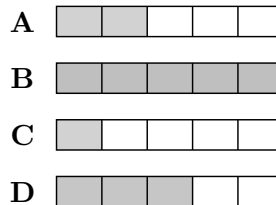
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- 1) Using the number line, which number just below 3,500 rounds to 3,500 when rounded to the nearest hundred?



- A. 3,449 C. 3,500
 B. 3,551 D. 3,450
- 2) Is 30 prime or composite?
- A. Prime C. Neither
 B. It depends D. Composite
- 3) Which statement matches the equation $12 = 3 \times 4$?
- A. 12 is 4 more than 3 C. 12 plus 3 equals 4
 B. 12 is 3 less than 4 D. 12 is 3 times as many as 4
- 4) Which fraction bar correctly shows $2 \times \frac{1}{5}$?



- A. Picture A C. Picture C
 B. Picture B D. Picture D



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5) Which number has a 9 in the hundreds place?

A. 9,234

C. 2,019

B. 3,590

D. 1,945

6) A paint can contains $6\frac{2}{3}$ quarts of paint. After painting a room, $2\frac{1}{3}$ quarts are left. How much paint was used?

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

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

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

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

7) Use this place-value table:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
5	2	1	4	0	6

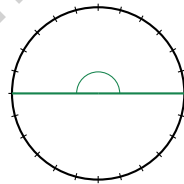
What is the value of the ten-thousands digit?

A. 2

C. 200

B. 20

D. 20,000



8)

A straight angle is shown with degree tick marks. How many one-degree angles form a straight angle?

A. 90 one-degree angles

C. 270 one-degree angles

B. 180 one-degree angles

D. 360 one-degree angles



9) Which quotient and remainder is correct for $849 \div 9$?

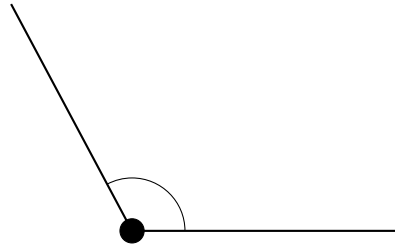
A. 93 r6

C. 95 r4

B. 96 r1

D. 94 r3

10)



This angle is bigger than a right angle. What is it called?

A. Acute

C. Obtuse

B. Right

D. Straight

11) What is $\frac{11}{12} - \frac{6}{12}$?

A. $\frac{5}{24}$

C. $\frac{5}{12}$

B. $\frac{17}{12}$

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

12) A line plot shows data with halves. At $\frac{1}{2}$ there are 2 X marks, at 1 there are 4 X marks, and at $\frac{3}{2}$ there is 1 X mark. How many X marks in total?

A. 5

C. 7

B. 6

D. 8

13) What is the next number in the pattern? 1, 1, 2, 3, 5, 8, 13, __

A. 18

C. 21

B. 20

D. 22



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- 6) Swap the digits 4 and 7 in 4,723. By how much does the number increase?

- 7) Which number sentence is true?

A. $2 \times \frac{1}{5} = \frac{1}{10}$

C. $4 \times \frac{1}{5} = \frac{4}{20}$

B. $3 \times \frac{1}{5} = \frac{3}{5}$

D. $5 \times \frac{1}{5} = \frac{1}{5}$

- 8) Use the place-value chart to find the decimal.

Tenths	Hundredths
9	2

A. 0.92

C. 0.029

B. 9.2

D. 92.0

- 9) A string is cut into 2 equal pieces. Both pieces are used. Which sum of unit fractions shows this?

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

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

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

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

- 10) Order these from least to greatest: 0.90, 0.09, 0.99, 0.19.

A. 0.09, 0.19, 0.90, 0.99

C. 0.99, 0.90, 0.19, 0.09

B. 0.09, 0.90, 0.19, 0.99

D. 0.19, 0.09, 0.99, 0.90



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1) What is $\frac{5}{6} - \frac{2}{6}$?

- A. $\frac{3}{6}$
 B. $\frac{7}{6}$

- C. $\frac{2}{6}$
 D. $\frac{3}{12}$

2) Which fraction equals $\frac{50}{100}$?

- A. $\frac{1}{10}$
 B. $\frac{5}{10}$

- C. $\frac{50}{10}$
 D. $\frac{10}{100}$

3) Which number sentence does NOT represent a correct multiple?

- A. $2 \times \frac{1}{8} = \frac{2}{8}$
 B. $3 \times \frac{1}{5} = \frac{3}{5}$

- C. $4 \times \frac{1}{6} = \frac{4}{12}$
 D. $5 \times \frac{1}{3} = \frac{5}{3}$

4) A farmer plants 5 rows of vegetables. Each row has 15 plants. How many plants does the farmer plant in total?

5) Noah ate $\frac{5}{8}$ of a pizza. Which sentence shows one way to decompose what he ate?

- A. He ate $\frac{2}{8}$ and $\frac{3}{8}$.
 B. He ate $\frac{1}{8}$ and $\frac{3}{8}$.

- C. He ate $\frac{2}{8}$ and $\frac{4}{8}$.
 D. He ate $\frac{3}{8}$ and $\frac{3}{8}$.



6) What is 52×15 ?

A. 520

C. 650

B. 830

D. 780

7) There are 4 basketballs. There are 8 times as many tennis balls. How many tennis balls are there?

A. 4

C. 2

B. 12

D. 32

8) Which pair of items from a classroom has right angles?

A. A pencil and a ball

C. A rope and a ball

B. A desk and a book

D. A clock and a spiral notebook

9) Which decimal is between $\frac{2}{10}$ and $\frac{4}{10}$?

A. 0.1

C. 0.5

B. 0.3

D. 0.6

10) A quadrilateral has tick marks on all four sides. How many equal sides are marked?



11) Round 3,264 to the nearest hundred.

A. 3,200

C. 3,260

B. 3,000

D. 3,300



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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.NBT.A.3) In 3,450, the tens digit is $5 \geq 5$, so round UP to **3,500** ✓. On the number line: 3,449 rounds to 3,400; 3,500 stays the same; 3,551 rounds to 3,600.
- Choice D is correct.** (4.OA.B.4) Hunt for factors beyond 1 and itself. 30 has lots of pairs: 2×15 , 3×10 , 5×6 . With more than two factors, 30 is **composite**.
- Choice D is correct.** (4.OA.A.1) Read $12 = 3 \times 4$ in words: “12 equals 3 groups of 4.” That’s the same as saying “12 is 3 times as many as 4.” The other choices use *more*, *plus*, or *less*—those describe adding or subtracting, not multiplying.
- Choice A is correct.** (4.NF.B.4) Picture A shows 5 equal parts with 2 shaded. This represents 2 out of 5 parts, or $2 \times \frac{1}{5}$.
- Choice D is correct.** (4.NBT.A.1) Check each number: 1,945 has 9 in the hundreds place (worth 900). The other options have 9 in different places. Answer: **1,945**. ✓
- Choice A is correct.** (4.NF.B.3) The paint can started full and some was used. Subtract what remains from the starting amount: $6\frac{2}{3} - 2\frac{1}{3} = 4\frac{1}{3}$ quarts of paint was used.
- Choice D is correct.** (4.NBT.A.2) The ten-thousands digit is 2. Value: $2 \times 10,000 = 20,000$ ✓
- Choice B is correct.** (4.MD.C.5) A straight angle is a 180° angle, meaning it turns through **180** one-degree angles.
- Choice D is correct.** (4.NBT.B.6) Divide: $84 \div 9 = 9$ r3, bring down the 9 to get $39 \div 9 = 4$ r3. The quotient is **94** with remainder 3.
- Choice C is correct.** (4.MD.C.5) An obtuse angle opens wider than a right angle.
- Choice C is correct.** (4.NF.B.3) Subtract the numerators: $11 - 6 = 5$. Keep the same denominator: $\frac{5}{12}$.
- Choice C is correct.** (4.MD.B.4) Add up all the X marks at each position: $2 + 4 + 1 = 7$ X marks in total.
- Choice C is correct.** (4.OA.B.4) Add the two previous terms: $8 + 13 = 21$. This is a Fibonacci-like pattern. ✓
- Choice A is correct.** (4.G.A.1) Parallel lines are like train tracks — they go the same direction and never bump into each other. The matching tick marks on Diagram A confirm these lines stay the same distance apart forever.
- The correct answer is A, C.** (4.OA.A.2) “3 times as many” means $3 \times 12 = 36$ blue balloons—that’s choice A. And the expression 3×12 in choice C is exactly the calculation we just did, so it’s correct too. B (24) and D (15) come from wrong operations, and E uses + instead of \times .
- The correct answer is 2.** (4.G.A.3) A rectangle that’s not square is longer in one direction. It balances perfectly along a vertical line through the middle and a horizontal line through the middle. The answer is **2**.
- Choice B is correct.** (4.MD.A.3) Using $P = 2\ell + 2w = 50$ with $\ell = 15$: $2(15) + 2w = 50$. Simplify: $30 + 2w = 50$, so $2w = 20$, thus $w = 10$ ft.
- Choice B is correct.** (4.NF.B.3) Look at the expression: $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$. Count them: **6** copies of $\frac{1}{3}$.
- Choice A is correct.** (4.NBT.B.5) Multiply by parts: $6 \times (60 + 5) = 360 + 30 = 390$ miles per day.
- Choice D is correct.** (4.MD.A.1) Since 1 cup = 16 tablespoons, multiply: $3 \times 16 = 48$ tablespoons. The answer is **48** tablespoons.
- Choice A is correct.** (4.NBT.B.4) To find how much farther, we subtract. $52,847 - 18,956 = 33,891$ meters.
- Choice C is correct.** (4.NF.B.4) The baker uses $\frac{5}{8}$ cup for one batch, and makes 3 batches. Multiply: $3 \times \frac{5}{8} = \frac{3 \times 5}{8} = \frac{15}{8} = 1\frac{7}{8}$ cups. The answer is **$1\frac{7}{8}$** cups.
- The correct answer is 8.** (4.OA.A.3) Equal teams is a division signal. Step 1: set up: $48 \div 6$. Step 2: solve: $48 \div 6 = 8$ students on each team. *Quick check:* $6 \times 8 = 48$. ✓
- The correct answer is $2\frac{3}{6}$.** (4.NF.B.3) 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 **$2\frac{3}{6}$** .
- Choice B is correct.** (4.NF.C.5) From the table: 6 tenths = 0.6 and 2 hundredths = 0.02. Add them: $0.6 + 0.02 = 0.62$.
- Choice D is correct.** (4.NF.A.1) A simplest form fraction has no common factors (other than 1) between the numerator and denominator. $\frac{3}{8}$ is simplest: 3 and 8 don’t share any factors. The others can all be reduced.
- Choice A is correct.** (4.NF.A.1) Compare to $\frac{1}{2}$: Convert to tenths: $\frac{3}{5} = \frac{6}{10}$ and $\frac{1}{2} = \frac{5}{10}$. Since $6 > 5$, $\frac{3}{5} > \frac{1}{2}$.



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Math Detective at Work

Hi, Math Detective!

◇ You did such a great job! You finished 5 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

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A+