

7

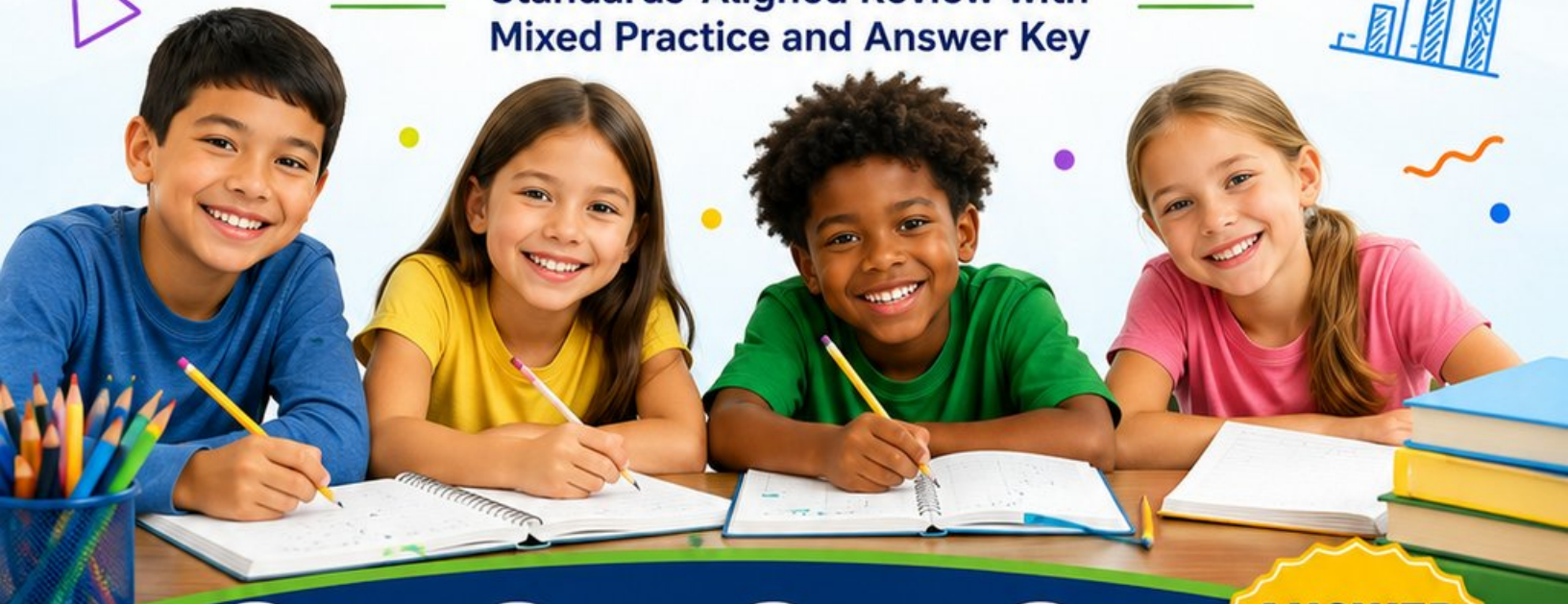
Illinois

IAR

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

7 Illinois IAR Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Prairie State math route

This book gives you seven 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?

Seven tests, 210 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 5–7 | 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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For more practice
& answers

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1) A book bag weighs 5 kilograms. How many grams is this?

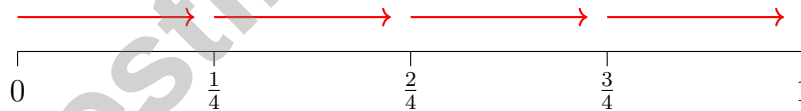
- A. 500 C. 50,000
 B. 5,000 D. 500,000

2) A garden plot needs $\frac{6}{4}$ bags of soil. The gardener already has $\frac{2}{4}$ bags. How many more bags are needed?

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

3) Look at the pattern: 4, 8, 12, 16, 20, What is the 12th term?

4) A number line shows equal jumps. Use it to find how many $\frac{1}{4}$ are in $\frac{4}{4}$.



- A. 1 C. 3
 B. 2 D. 4

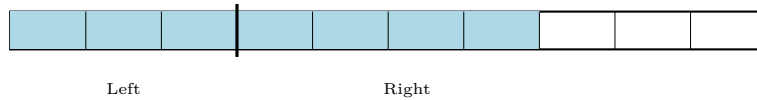
5) Diego needs to divide 1,625 into 5 equal groups. What is the result?

- A. 315 C. 335
 B. 305 D. 325



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6) A student drew this bar to show $\frac{7}{10}$:



The line splits this into two parts. Which decomposition is shown?

A. $\frac{3}{10} + \frac{4}{10}$

C. $\frac{4}{10} + \frac{2}{10}$

B. $\frac{2}{10} + \frac{5}{10}$

D. $\frac{1}{10} + \frac{6}{10}$

7) Look at this number: 56,789. What is the value of the hundreds digit?

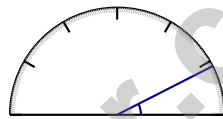
A. 7

C. 700

B. 70

D. 7,000

8)



What is the measure of the angle shown?

A. 25 degrees

C. 30 degrees

B. 27 degrees

D. 32 degrees

9) Solve: $\frac{6}{12} + \frac{7}{12} = ?$

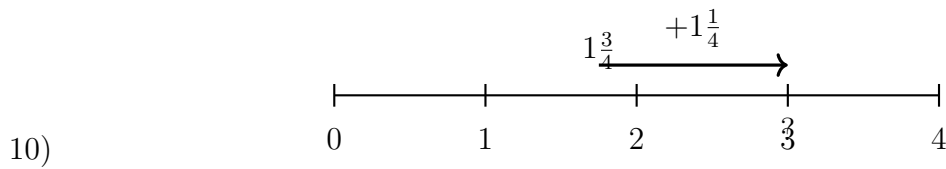
A. $\frac{13}{12}$ or $1\frac{1}{12}$

C. $\frac{1}{12}$

B. $\frac{13}{24}$

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





Using the number line, what is $1\frac{3}{4} + 1\frac{1}{4}$?

- A. 3
- B. $2\frac{3}{4}$
- C. $2\frac{1}{4}$
- D. $3\frac{1}{4}$
- 11) Complete the equation: $7 \times \frac{1}{\underline{\quad}} = \frac{7}{9}$
- A. 7
- B. 2
- C. 9
- D. 16
- 12) Leo reads 2 books. His sister reads 5 times as many books as Leo. How many books does his sister read?
- A. 3
- B. 7
- C. 5
- D. 10
- 13) Mia weighs 42 pounds. Her dog weighs 18 pounds. How much more does Mia weigh than her dog?
- A. 24 pounds
- B. 60 pounds
- C. 18 pounds
- D. 42 pounds
- 14) Which sentence is NOT true?
- A. $\frac{6}{10} = \frac{60}{100}$
- B. $\frac{60}{100} = 0.60$
- C. $\frac{6}{10} = 0.06$
- D. $0.6 = \frac{60}{100}$



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1) A piece of string weighs $\frac{3}{5}$ ounce. What is the weight of 4 pieces?

A. $\frac{3}{20}$ ounce

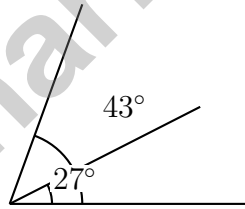
C. $\frac{7}{5}$ ounces

B. $\frac{12}{5}$ ounces

D. $\frac{4}{5}$ ounce

2) Find $\frac{3}{4} + \frac{2}{4}$ as a mixed number.

3) An angle is formed by three rays meeting at a point. The first ray creates an angle of 27° , the second creates 43° , and together these form a larger angle. What is this larger angle measure?



A. 70°

C. 90°

B. 16°

D. 100°

4) By what number do you multiply both the numerator and denominator of $\frac{1}{6}$ to get $\frac{2}{12}$?

A. 1

C. 3

B. 6

D. 2



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5) $\frac{5}{8}$ can be written as $\frac{2}{8} + \frac{2}{8} + \frac{1}{8}$. Which other decomposition is correct?

A. $\frac{1}{8} + \frac{1}{8} + \frac{3}{8}$

C. $\frac{1}{8} + \frac{2}{8} + \frac{1}{8}$

B. $\frac{2}{8} + \frac{3}{8} + \frac{1}{8}$

D. $\frac{3}{8} + \frac{3}{8} + \frac{1}{8}$

6) 4 times

| |
|---|
| 7 |
| ? |

Kai bought 7 notebooks for school. His friend bought 4 times as many notebooks. How many notebooks did his friend buy?

A. 11

C. 35

B. 22

D. 28

7) Which pattern shows only odd numbers?

A. 2, 4, 6, 8, 10

C. 2, 3, 4, 5, 6

B. 1, 3, 5, 7, 9

D. 5, 10, 15, 20, 25

8) A sports team has 96 uniforms. They divide them equally among 6 teams. Then each team donates 5 uniforms to a new club. How many uniforms does each team have left?

A. 10

C. 21

B. 16

D. 11

9) What is $1,245 \div 5$?

A. 229

C. 289

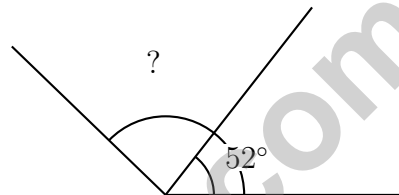
B. 269

D. 249

1) Use the chart to find the number.

| Thousands | Hundreds | Tens | Ones |
|-----------|----------|------|------|
| 9 | 0 | 5 | 3 |

- A. 953
- B. 9,503
- C. 9,530
- D. 9,053
- 2) A ray divides a 136° angle into two parts. The smaller part measures 52° . What is the measure of the larger part?



- A. 84°
- B. 52°
- C. 188°
- D. 68°
- 3) A factory produces 46 widgets per hour. If the factory runs for 12 hours, how many widgets are produced?
- A. 552 widgets
- B. 598 widgets
- C. 485 widgets
- D. 621 widgets
- 4) Which of the following is true about a rhombus that is **not** a square?
- A. It has 4 lines of symmetry
- B. It has 2 lines of symmetry
- C. It has 1 line of symmetry
- D. It has no lines of symmetry



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5) What is the perimeter of a rectangle that is 5 cm long and 3 cm wide?

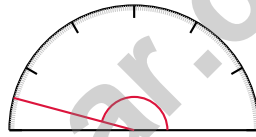
- A. 8 cm C. 16 cm
 B. 15 cm D. 30 cm

6) Rio says that $\frac{2}{3} > \frac{2}{5}$. Is Rio correct?

- A. Yes, Rio is correct D. Cannot determine without a picture
 B. No, they are equal
 C. No, $\frac{2}{3} < \frac{2}{5}$

7) What number is equal to $30,000 + 6,000 + 500 + 20 + 8$?

- A. 36,285 C. 36,258
 B. 36,582 D. 36,528



8)

What is the measure of this angle near a straight line?

- A. 160 degrees C. 170 degrees
 B. 165 degrees D. 175 degrees

9) A pattern shows every third multiple of 4. Which list shows this pattern?

- A. 4, 8, 12, 16, 20 C. 4, 12, 20, 28, 36
 B. 8, 16, 24, 32, 40 D. 12, 24, 36, 48, 60



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.MD.A.1) Since 1 kilogram = 1,000 grams, multiply: $5 \times 1,000 = 5,000$ g. The answer is **5,000** g.
- Choice A is correct.** (4.NF.B.3) The gardener needs soil but already has some. Find how much more is needed by subtracting what he has from what's needed: $\frac{6}{4} - \frac{2}{4} = \frac{4}{4}$ more bags of soil are needed.
- The correct answer is 48.** (4.OA.B.4) The n th multiple of 4 is just $4 \times n$. So the 12th term is $4 \times 12 = 48$. *Quick check by skip-counting:* 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48—the 12th number is indeed 48. ✓
- Choice D is correct.** (4.NF.B.3) The number line shows four arrows, each jumping $\frac{1}{4}$. Counting them: **4** jumps of $\frac{1}{4}$ equal 1 whole.
- Choice D is correct.** (4.NBT.B.6) Use long division: $16 \div 5 = 3$ r1, bring down the 2 to get $12 \div 5 = 2$ r2, bring down the 5 to get $25 \div 5 = 5$. The result is **325**.
- Choice A is correct.** (4.NF.B.3) The thick line splits the bar in two. Left side: $\frac{3}{10}$. Right side: $\frac{4}{10}$. Total: $3 + 4 = 7$, so $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$ ✓.
- Choice C is correct.** (4.NBT.A.2) The hundreds digit (third from right) is 7. Value: $7 \times 100 = 700$ ✓
- Choice B is correct.** (4.MD.C.6) The ray points to the 27° mark, which is between 20° and 30° . Since $27^\circ < 90^\circ$, this is a small acute angle. The answer is **27** degrees.
- Choice A is correct.** (4.NF.B.3) Add the numerators: $6 + 7 = 13$. We get $\frac{13}{12}$, which is more than a whole, so it equals $1\frac{1}{12}$.
- Choice A is correct.** (4.NF.B.3) Start at $1\frac{3}{4}$ and jump right by $1\frac{1}{4}$. Add the wholes: $1 + 1 = 2$. Add the fractions: $\frac{3}{4} + \frac{1}{4} = \frac{4}{4} = 1$. Combine: $2 + 1 = 3$.
- Choice C is correct.** (4.NF.B.4) The fraction $\frac{7}{9}$ has numerator 7 and denominator 9. This means 7 copies of $\frac{1}{9}$. So the missing denominator is 9.
- Choice D is correct.** (4.OA.A.1) "5 times as many" means we multiply. Leo's sister reads 5 groups of 2 books, so $5 \times 2 = 10$ books.
- Choice A is correct.** (4.MD.A.2) Mia weighs 42 pounds and her dog weighs 18 pounds. Subtract to compare: $42 - 18 = 24$ pounds. Mia weighs **24** pounds more.
- Choice C is correct.** (4.NF.C.5) The correct equivalence is $\frac{6}{10} = \frac{60}{100} = 0.6$. The option 0.06 is actually $\frac{6}{100}$, which is much smaller.
- Choice C is correct.** (4.NF.A.1) Check each option: $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$. All equivalent! But $\frac{2}{5}$ is different because when you cross-multiply, $2 \times 3 = 6$ but $5 \times 1 = 5$.
- The correct answer is A, C.** (4.NF.B.4) A: $4 \times \frac{3}{5} = \frac{4 \times 3}{5} = \frac{12}{5}$ ✓. C: $3 \times \frac{4}{5} = \frac{3 \times 4}{5} = \frac{12}{5}$ ✓. B: $6 \times \frac{2}{3} = \frac{12}{3} = 4$ (not $\frac{12}{5}$). D: $2 \times \frac{1}{5} = \frac{2}{5}$ (not $\frac{12}{5}$). E: $3 \times \frac{2}{5} = \frac{6}{5}$ (not $\frac{12}{5}$). The answers are **A** and **C**.
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: find the total books on the shelves. 8 shelves \times 45 books = 360 books. Step 2: take out the books being repaired. $360 - 72 = 288$ books left on the shelves.
- Choice A is correct.** (4.NF.B.4) Counting by $\frac{2}{6}$: first $\frac{2}{6}$, then $\frac{4}{6}$, then $\frac{6}{6}$, then $\frac{8}{6}$. That's choice A!
- The correct answer is 9,690.** (4.NBT.B.4) Add from right to left: ones $4 + 6 = 10$ (write 0, carry 1), tens $3 + 5 + 1 = 9$, hundreds $2 + 4 = 6$, thousands $6 + 3 = 9$. The sum is **9,690**.
- Choice C is correct.** (4.G.A.3) A square is perfectly balanced four ways: two lines pass through the centers of opposite sides (up/down and left/right), and two lines pass through opposite corners (diagonals). The answer is **4** lines of symmetry.
- Choice A is correct.** (4.NF.C.5) This number line zooms in from 0.30 to 0.40, counting by hundredths. The dot lands on 0.38.
- Choice A is correct.** (4.MD.C.5) An acute angle is smaller than a right angle. This angle opens less than a square corner, so it is acute.
- The correct answer is 90.** (4.MD.C.5) The hour hand moves 30° per hour. From 2 to 5 is 3 hours, so $3 \times 30^\circ = 90^\circ$.
- Choice B is correct.** (4.NF.C.5) 0.4 sits right in the middle: it's bigger than 0.3 but smaller than 0.5.



Hi, Math Detective!

◇ You did such a great job! You finished 7 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

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

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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.



Track Progress

Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
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- ✓ And More!



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Mixed Question Types



Answer Key Included