

6 Illinois IAR

GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 Illinois IAR Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six 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!

Six steady rounds on the Prairie State math route

This book gives you six 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?

Six tests, 180 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 4–6	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

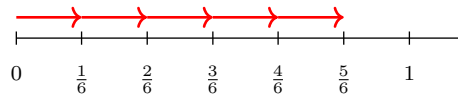
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1) How many factors does 32 have?

- A. 4 C. 6
 B. 5 D. 7

2) A number line shows unit-fraction jumps of $\frac{1}{6}$ starting at 0. After 5 jumps, you are at position:



- A. $\frac{3}{6}$ C. $\frac{5}{6}$
 B. $\frac{4}{6}$ D. $\frac{6}{6}$

3) If an angle turns through 45 one-degree angles, what is the measure of the angle?

- A. 4.5° C. 90°
 B. 45° D. 450°

4) A straight angle measures:

- A. Less than 90° C. Between 90° and 180°
 B. Exactly 90° D. Exactly 180°

5) A school buys 4 cases of pencils. Each case has 50 pencils. They distribute equally to 25 classrooms. How many pencils does each classroom get?

- A. 10 pencils C. 15 pencils
 B. 12 pencils D. 8 pencils



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6) Write 0.56 as a fraction.

7) What is $\frac{1}{4} + \frac{3}{4}$?

A. $\frac{4}{8}$

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

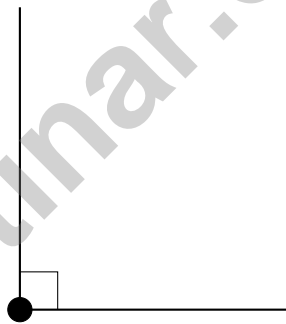
C. $\frac{3}{4}$

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

8) If a clock hand turns 120° , through how many hour marks does it move?

 A. 2 marks B. 3 marks C. 4 marks D. 6 marks

9)



This is a right angle. How many degrees does it measure?

 A. 45 degrees B. 90 degrees C. 180 degrees D. 270 degrees

10) Which shows $\frac{4}{10}$ as a sum of unit fractions?

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

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

B. $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

D. $\frac{1}{10} + \frac{3}{10}$

11) A room is 15 feet long and 12 feet wide. What is the area of the floor?

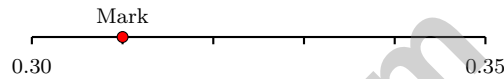
A. 27 sq ft

C. 180 sq ft

B. 54 sq ft

D. 120 sq ft

12) Number line with decimals between two tenths marked.



What decimal is marked?

A. 0.31

C. 0.3

B. 0.13

D. 0.41

13) A construction company pours 32 sections of concrete. Each section uses 24 bags of cement. How many bags of cement are needed?

A. 696 bags

C. 850 bags

B. 920 bags

D. 768 bags

14) Select the TWO correct statements about angle addition.

A. Two angles of 72° and 108° together form an angle of 180° .

B. If a 125° angle is split into a 50° angle and another angle, the other angle must measure 85° .

C. A full rotation of 360° split into four equal angles produces angles of 80° each.

D. Three angles measuring 55° , 60° , and 65° sum to 180° .

E. When a 90° angle is divided into two parts, one part measuring 30° , the other must measure 70° .



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1) Which sum is correct?

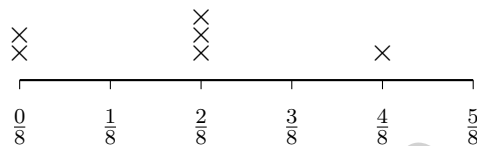
A. $\frac{7}{10} + \frac{10}{100} = \frac{80}{100}$

B. $\frac{7}{10} + \frac{10}{100} = \frac{17}{110}$

C. $\frac{7}{10} + \frac{10}{100} = \frac{7}{10}$

D. $\frac{7}{10} + \frac{10}{100} = \frac{7}{100}$

2) Look at this line plot with eighths:



How many total data points does this line plot show?

A. 4

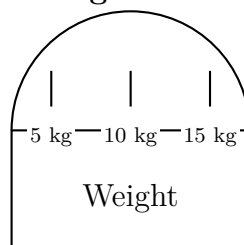
B. 5

C. 6

D. 7

3) Find 32×19 .

Weight Scale



4)

A scale shows that a dog weighs 12 kilograms. How many grams does the dog weigh?

A. 1,200 g

B. 12,000 g

C. 120,000 g

D. 1,200,000 g



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1) Ming spent \$0.45 on a pencil. This decimal can be written as what fraction?

A. $\frac{45}{10}$

B. $\frac{4}{5}$

C. $\frac{45}{100}$

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

2) Noah wrote three numbers: 2,500, 3,450, and 1,725. In which number is the value of the hundreds digit the greatest?

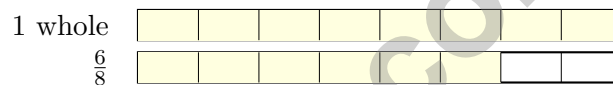
A. 2,500

B. 3,450

C. 1,725

D. All three are equal

3) A board is $\frac{14}{8}$ inches long. Decompose this as a mixed number:



A. $1\frac{6}{8} = \frac{8}{8} + \frac{6}{8}$

B. $2\frac{1}{8} = \frac{16}{8} + \frac{1}{8}$

C. $1\frac{3}{8} = \frac{8}{8} + \frac{3}{8}$

D. $1\frac{5}{8}$ inches

4) Which fraction is equivalent to $\frac{10}{12}$ and in simplest form?

A. $\frac{5}{6}$

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

C. $\frac{10}{6}$

D. $\frac{20}{24}$

5) Which fraction is less than $\frac{1}{2}$?

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

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

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

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



6) Which real-world object best shows a right angle?

A. Clock



B. Table corner



C. Pencil



D. Slice of pie



A. Clock

B. Table corner

C. Pencil

D. Slice of pie

7) Which decimal is greater: 0.64 or 0.46?

8) What is $4,125 \div 5$?

A. 805

B. 815

C. 825

D. 835

9) A store has 36 balloons. Another store has 3 times as many balloons. How many balloons does the other store have?

A. 39

B. 72

C. 126

D. 108

10) Noah mixed together 3 batches of paint. Each batch is $\frac{1}{6}$ gallon. How many gallons of paint does Noah have?

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

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

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

D. $\frac{1}{2}$ gallon (same as $\frac{3}{6}$)



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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 C is correct.** (4.OA.B.4) Factor pairs of 32: 1×32 , 2×16 , 4×8 . That gives factors 1, 2, 4, 8, 16, 32—count them up: **6** factors.
- Choice C is correct.** (4.NF.B.4) Starting at 0, each jump is $\frac{1}{6}$. After 5 jumps, we've moved $5 \times \frac{1}{6} = \frac{5}{6}$ of the way.
- Choice B is correct.** (4.MD.C.5) If an angle turns through n one-degree angles, it measures n degrees, so 45 one-degree angles equal 45° .
- Choice D is correct.** (4.G.A.1) A straight angle is like opening a book all the way flat — it makes a perfectly straight line measuring 180° .
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: total pencils: 4 cases \times 50 pencils = 200. Step 2: share equally among 25 classrooms: $200 \div 25 = 8$ pencils each.
- The correct answer is** $\frac{56}{100}$. (4.NF.C.5) 0.56 is fifty-six hundredths: $0.56 = \frac{56}{100}$.
- Choice B is correct.** (4.NF.B.3) Add numerators: $1 + 3 = 4$. We get $\frac{4}{4}$, which is one whole. When the top and bottom match, it equals 1.
- Choice C is correct.** (4.MD.C.5) Each hour mark on a clock is 30° apart, so $120^\circ \div 30^\circ = 4$ marks.
- Choice B is correct.** (4.MD.C.5) A right angle always measures **90** degrees.
- Choice B is correct.** (4.NF.B.3) $\frac{4}{10}$ means 4 pieces out of 10, and each piece is $\frac{1}{10}$. So $\frac{4}{10} = \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$.
- Choice C is correct.** (4.MD.A.3) The floor area is $15 \times 12 = 180$ sq ft.
- Choice A is correct.** (4.NF.C.5) The number line from 0.30 to 0.35 divides into 5 equal steps. The mark is one step from 0.30, so it lands on 0.31.
- Choice D is correct.** (4.NBT.B.5) Distribute: $32 \times (20 + 4) = 640 + 128 = 768$ bags.
- The correct answer is A, D.** (4.MD.C.7) B is wrong ($125^\circ - 50^\circ = 75^\circ$). C is wrong ($360^\circ \div 4 = 90^\circ$). E is wrong ($90^\circ - 30^\circ = 60^\circ$).
- Choice B is correct.** (4.MD.C.6) The ray points to the 175° mark, which is just 5° short of a straight angle (180°). This is a very wide obtuse angle. The answer is **175** degrees.
- Choice C is correct.** (4.NBT.A.1) If the same digit is in the thousands place (worth digit \times 1,000) and the ones place (worth digit \times 1), the ratio is $1,000 \div 1 = 1,000$. ✓
- Choice C is correct.** (4.NF.A.1) The denominator goes from 6 to 12 (multiply by 2). Multiply the numerator by 2 also: $\frac{3}{6} = \frac{3 \times 2}{6 \times 2} = \frac{6}{12}$.
- Choice D is correct.** (4.OA.A.1) Step 1: find Owen's soldiers: $5 \times 7 = 35$. Step 2: "how many *more*" is a subtraction: $35 - 5 = 30$. Owen has **30** more soldiers than Ethan.
- Choice D is correct.** (4.NBT.A.2) Breaking it: 12 thousands ("twelve thousand") and 405 ones ("four hundred five") ✓
- Choice B is correct.** (4.NF.B.4) Four shelves, each $\frac{3}{10}$ meter wide, give us $4 \times \frac{3}{10} = \frac{12}{10}$ meters total width.
- Choice A is correct.** (4.NBT.B.4) Start in the ones place: $0 < 5$, so regroup one ten as 10 ones. Then subtract from right to left carefully. The answer is **4,835**.
- Choice C is correct.** (4.MD.B.4) Add up each person's time: Zoe: $\frac{1}{2} + 1 + \frac{1}{2} = 2$ hours. Kai: $1 + \frac{3}{2} = \frac{5}{2}$ hours. Jordan: $\frac{3}{2} + \frac{3}{2} + 1 = 4$ hours. Jordan has the highest total.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest ten. Look at the ones digit: 6. Since $6 \geq 5$, we round UP! The tens digit goes from 9 to 10—a rollover! So the answer is **5,200**. ✓
- Choice B is correct.** (4.G.A.3) An isosceles triangle has two equal sides meeting at the top (vertex angle). A fold line from that top point straight down to the middle of the base creates matching left and right halves. The answer is An isosceles triangle with the line through the vertex angle.
- Choice A is correct.** (4.NF.B.3) The container started full and some juice was served. Find how much was served by subtracting what's left from what started: $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$ liter of juice was served.
- Choice A is correct.** (4.MD.A.1) Since 1 cup = 8 fluid ounces, divide: $120 \div 8 = 15$ cups. The answer is **15** cups.



Inventor's Workshop Note

Hi, Math Inventor!

◇ 6 practice tests. 6 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

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

PERFECT FOR:

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- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

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SUCCESS FOR LIFE.**

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.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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