

# 6 Iowa ISASP

## 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 Iowa ISASP Grade 4 Math Practice Tests

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



Six complete 30-question Grade 4 practice rounds for ISASP, built around farm fields, fairground patterns, and steady multiplication facts, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Iowa Math Explorer!

Six steady rounds on the Hawkeye State math route

This book gives you six full Grade 4 practice tests for ISASP. Each round uses farm fields, fairground patterns, and steady multiplication facts to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Iowa 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 Iowa ISASP 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 Hawkeye 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 ISASP 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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& answers

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- 1) Carter runs  $\frac{3}{8}$  mile each morning. If he runs for 3 mornings, how far does he run in total?
- A.  $\frac{3}{24}$  miles  C.  $\frac{6}{8}$  miles (or  $\frac{3}{4}$  miles)  
 B.  $\frac{9}{8}$  miles (or  $1\frac{1}{8}$  miles)  D.  $\frac{1}{8}$  mile
- 2) The pattern is: 2, 4, 8, 16, 32, ... What is the 7th term?
- A. 64  C. 256  
 B. 512  D. 128
- 3) What is  $\frac{6}{10} + \frac{20}{100}$ ?
- A.  $\frac{26}{100}$   C.  $\frac{26}{110}$   
 B.  $\frac{80}{100}$   D.  $\frac{62}{100}$
- 4) Mia says the angle she drew contains 92 one-degree angles. What is the measure of her angle?
- A.  $92^\circ$   C.  $184^\circ$   
 B.  $46^\circ$   D.  $9.2^\circ$
- 5) Write 0.7 as a fraction with denominator 10.
- A.  $\frac{7}{100}$   C.  $\frac{7}{10}$   
 B.  $\frac{70}{100}$   D.  $\frac{70}{10}$



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6) What is  $4 \times \frac{1}{3}$ ?

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

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

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

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

7) A bake sale made 1,800 cookies. They filled boxes with 9 cookies in each box. How many full boxes were made?

A. 100

B. 150

C. 200

D. 250

8) Leo has 11 bags of marbles. Each bag has 32 marbles. How many marbles does Leo have?

A. 242

B. 401

C. 315

D. 352

9) How many degrees does a right angle measure?

A. 45 degrees

B. 90 degrees

C. 120 degrees

D. 180 degrees

10) Which fraction is in simplest form?

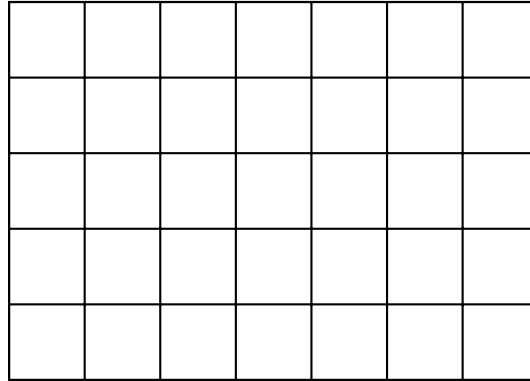
A.  $\frac{2}{6}$

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

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

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





11)

The grid shows a rectangle where each small square is 1 square unit. What is the perimeter of the rectangle?

- A. 35 units                       C. 24 units  
 B. 48 units                       D. 12 units

12) Simplify  $\frac{2}{8}$ .

13) Kai is at a lemonade stand. Pitcher A holds 0.75 liters. Pitcher B holds 0.57 liters. Which pitcher holds more lemonade?

- A. Pitcher A (0.75 L)                       C. Both hold the same amount  
 B. Pitcher B (0.57 L)                       D. Pitcher B holds twice as much



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1) What is  $\frac{7}{10} - \frac{3}{10}$ ?

A.  $\frac{4}{20}$

B.  $\frac{4}{10}$

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

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

2) Ava splits a granola bar into 6 equal pieces. She gives away 4 pieces. Write the fraction given away as a sum of unit fractions.

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

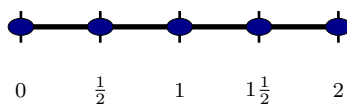
B.  $\frac{4}{6}$

C.  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

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

3) Multiply  $7 \times 314$  using the standard algorithm or partial products.

4) Is 29 prime or composite?

 A. Not possible B. Composite C. Neither D. Prime

Number line (0 to 2)

5)

On a number line, you mark dots at 0,  $\frac{1}{2}$ , 1,  $1\frac{1}{2}$ , and 2. What does the pattern show about  $4 \times \frac{1}{2}$ ?

A.  $4 \times \frac{1}{2} = 8$

B.  $4 \times \frac{1}{2} = 2$

C.  $4 \times \frac{1}{2} = 4$

D.  $4 \times \frac{1}{2} = 6$



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6) Write  $\frac{50}{100}$  as a decimal.

7) What is the rule for this pattern? 7, 14, 21, 28, 35, ...

- A. Multiply by 7                       C. Add 8  
 B. Multiply by 2                       D. Add 7

8) Which correctly shows  $\frac{7}{8}$  as a sum of unit fractions?

- A.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$                        C.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$   
 B.  $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$                        D.  $\frac{1}{8}$  seven times plus  $\frac{1}{1}$

9) What is  $2,432 \div 8$ ?

- A. 304                                       C. 324  
 B. 314                                       D. 334

10) Which turn is the largest?

- A.  $\frac{1}{2}$  turn                                       C.  $\frac{2}{5}$  turn  
 B.  $\frac{1}{3}$  turn                                       D.  $\frac{1}{4}$  turn

11) Lily had 3 sticker sheets. Her grandmother gave her 4 times as many sticker sheets as Lily already had. How many sticker sheets does Lily have in all?

- A. 7     C. 16  
 B. 12     D. 15



1) What is 98,765 rounded to the nearest thousand?

- A. 98,000                       C. 98,800  
 B. 100,000                     D. 99,000

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

- A.  $\frac{5}{12}$                                C.  $\frac{4}{6}$   
 B.  $\frac{5}{6}$                                  D.  $\frac{6}{6}$  or 1

3) Write  $\frac{9}{12}$  as a sum of three equal fractions. What is each fraction?

4) Use this place-value chart:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
4	1	8	5	2	3

What is the standard numeral?

- A. 418,253                       C. 418,352  
 B. 481,523                       D. 418,523



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5) Two parallel lines are best described as:

- A. Lines that meet at a right angle       C. Lines that meet at any angle  
 B. Lines that never meet and are always the same distance apart       D. Lines that share a common endpoint

6) A fountain holds 20 gallons of water. How many quarts is this?

- A. 5       C. 80  
 B. 40       D. 160

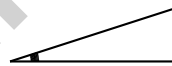
7) Mia has 0.4 of a pizza. How can she write this as a fraction with denominator 10?

- A.  $\frac{4}{100}$        C.  $\frac{40}{100}$   
 B.  $\frac{4}{10}$        D.  $\frac{4}{1000}$

8) A digit has a value of 7,000. What is the place value of this digit?

- A. Hundreds       C. Tens  
 B. Ones       D. Thousands

9)



This angle shows tick marks from 0 to 18 degrees. Write the measure of this angle.



## 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.B.4) Carter runs  $\frac{3}{8}$  mile each morning for 3 mornings. We multiply:  $3 \times \frac{3}{8} = \frac{9}{8}$  miles.
- Choice D is correct.** (4.OA.B.4) Double each term: 2, 4, 8, 16, 32, 64, **128**. The 7th term is **128**.
- Choice B is correct.** (4.NF.C.5) First, convert  $\frac{6}{10}$  to hundredths:  $\frac{6}{10} = \frac{60}{100}$ . Then add:  $\frac{60}{100} + \frac{20}{100} = \frac{80}{100}$ .
- Choice A is correct.** (4.MD.C.5) If Mia's angle contains 92 one-degree angles, its measure is **92°**.
- Choice C is correct.** (4.NF.C.5) 0.7 is zero point seven, which is read as seven tenths. That means  $0.7 = \frac{7}{10}$ .
- Choice A is correct.** (4.NF.B.4) We take 4 copies of  $\frac{1}{3}$ . Multiply:  $4 \times \frac{1}{3} = \frac{4 \times 1}{3} = \frac{4}{3} = 1\frac{1}{3}$ . The answer is **1 $\frac{1}{3}$** .
- Choice C is correct.** (4.NBT.B.6) Divide:  $18 \div 9 = 2$  and  $0 \div 9 = 0$ . The bakery made **200** full boxes of cookies.
- Choice D is correct.** (4.NBT.B.5) Break down by tens and ones:  $11 \times (30 + 2) = 330 + 22 = \mathbf{352}$  marbles.
- Choice B is correct.** (4.MD.C.6) A right angle is a special angle that measures exactly  $90^\circ$  every time—no more, no less. You see right angles at the corners of books, windows, doors, and many shapes we use every day. The answer is **90** degrees.
- 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 C is correct.** (4.MD.A.3) From the grid: 7 units long and 5 units wide. Perimeter =  $2(7) + 2(5) = 14 + 10 = 24$  units.
- The correct answer is  $\frac{1}{4}$ .** (4.NF.A.1) Divide both numerator and denominator by their common factor 2:  $\frac{2}{8} = \frac{1}{4}$ .
- Choice A is correct.** (4.NF.C.5) Compare the tenths place:  $7 > 5$ , so  $0.75 > 0.57$ . Pitcher A holds more lemonade.
- Choice A is correct.** (4.MD.C.5) The diagram shows an angle between a downward ray and a diagonal ray. The measure is **45°**.
- Choice D is correct.** (4.MD.C.5) A straight angle is formed when two rays point in exactly opposite directions, making a straight line.
- Choice B is correct.** (4.MD.A.1) Since 1 pint = 16 fluid ounces, divide:  $64 \div 16 = 4$  pints. The answer is **4** pints.
- Choice D is correct.** (4.G.A.3) The letter Z slants in one direction only. If you fold it any way—up and down, left and right, or diagonally—the halves don't match. The answer is letter **Z**.
- The correct answer is A, C.** (4.G.A.1) Angle 1 opens just a little (about  $35^\circ$ ), making it acute. Angle 2 has that perfect right angle marker, so it's  $90^\circ$ . They're definitely not equal to each other!
- Choice D is correct.** (4.OA.A.1) Here we already know the larger amount (36) and the comparison (9 times). To find the smaller amount, "undo" the multiplication by dividing:  $36 \div 9 = 4$ . Yesterday the baker made **4** muffins.
- Choice A is correct.** (4.NF.B.3) The fabric strip shows three parts. Red and blue are filled, white is empty. Step 1: Add the colored parts:  $\frac{2}{6} + \frac{2}{6} = \frac{4}{6}$ . Step 2: Subtract from the whole:  $\frac{6}{6} - \frac{4}{6} = \frac{2}{6}$  is white.
- Choice D is correct.** (4.NBT.A.1) A value of 30 means  $3 \times 10$ . The tens place is where digit  $\times 10$ . Answer: Tens. ✓
- Choice C is correct.** (4.OA.B.4) List the even numbers from 20 through 30: 20, 22, 24, 26, 28, 30. Count them: **6** numbers. (Even numbers are exactly the ones divisible by 2.)
- Choice D is correct.** (4.NBT.A.2) From the table: ten-thousands: 2, thousands: 0, hundreds: 9, tens: 3, ones: 5 → 20,935 ✓
- Choice C is correct.** (4.NF.B.4) One whole ( $\frac{4}{4}$ ) equals 4 copies of  $\frac{1}{4}$ . So there are **4** fourths in one whole.
- The correct answer is 3,801.** (4.NBT.B.4) Ming read pages in two months, so we add.  $1,234 + 2,567 = \mathbf{3,801}$  pages total.
- 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 C is correct.** (4.MD.B.4) Count the X marks at values of 1 inch or less. At 0: 1 mark. At  $\frac{1}{2}$  inch: 2 marks. At 1 inch: 2 marks. Total:  $1 + 2 + 2 = \mathbf{5}$  marks.
- Choice D is correct.** (4.OA.A.3) Two parts! First:  $144 \div 12 = 12$  full crates. Then the 9 extra toys won't fill a crate but still need one—so we round up:  $12 + 1 = 13$  crates total.



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## Hi, Hero!

◇ Once there was a Grade 4 student who took 6 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Storyteller

# 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:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ **CONFIDENCE IN MATH.  
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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DESIGNED FOR SUCCESS.**



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Strengthens Critical Thinking & Problem Solving



Encourages Independent Learning



Prepares Students for Test Day Success