

4

Iowa ISASP



GRADE 4

MATH

PRACTICE TESTS



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED



Standards-Aligned Review with
Mixed Practice and Answer Key



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$



4 Iowa ISASP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Iowa Math Explorer!

Four steady rounds on the Hawkeye State math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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.

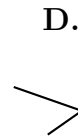
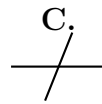
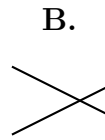
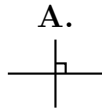


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For more practice
& answers

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1) Which diagram shows two perpendicular lines?



A. Diagram A

C. Diagram C

B. Diagram B

D. Diagram D

2) A store has 96 ounces of dried apples to pack into bags of 8 ounces each. How many bags are needed?

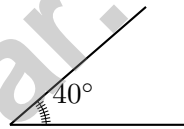
A. 8 bags

C. 88 bags

B. 12 bags

D. 104 bags

3)



An angle turns through 40 one-degree angles. What is the measure of this angle?

A. 40°

C. 39°

B. 41°

D. 80°

4) 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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- 5) A baker uses $\frac{3}{4}$ cup of flour, then adds $\frac{2}{4}$ cup more. How much flour total?
- A. $\frac{5}{8}$ cup C. $\frac{1}{4}$ cup
 B. $\frac{5}{4}$ or $1\frac{1}{4}$ cups D. $\frac{6}{4}$ cups
- 6) Which number correctly matches all three forms?
- A. Standard: 142,805; Word: “One hundred forty-two thousand, eight hundred five”; Expanded: $100,000 + 40,000 + 2,000 + 800 + 5$
 B. Standard: 142,805; Word: “Fourteen thousand, two hundred five”; Expanded: $100,000 + 40,000 + 2,000 + 800 + 5$
 C. Standard: 124,805; Word: “One hundred forty-two thousand, eight hundred five”; Expanded: $100,000 + 20,000 + 4,000 + 800 + 5$
 D. Standard: 142,850; Word: “One hundred forty-two thousand, eight hundred fifty”; Expanded: $100,000 + 40,000 + 2,000 + 800 + 5$
- 7) A quadrilateral has two pairs of parallel sides and four right angles, but the sides are not all equal. What is it?
- A. Square C. Rhombus
 B. Rectangle D. Trapezoid



- 8) $\frac{3}{5}$ water left removed
 $\frac{3}{5}$ filled, then $\frac{1}{5}$ removed
- A container divided into 5 equal parts is $\frac{3}{5}$ filled with water. If $\frac{1}{5}$ of the water is removed, what fraction of the container remains filled?
- A. $\frac{1}{5}$ C. $\frac{4}{5}$
 B. $\frac{2}{5}$ D. $\frac{3}{5}$

9) Marcus reads $\frac{3}{12}$ of a book each day. How much of the book does he read in 4 days?

- A. $\frac{3}{48}$ of the book C. $\frac{4}{12}$ of the book
 B. $\frac{12}{12}$ of the book (or the whole book) D. $\frac{7}{12}$ of the book

10) Is 16 prime or composite?

- A. Prime C. Neither
 B. Not a whole number D. Composite

11) What is $1,428 \div 6$?

- A. 238 C. 248
 B. 242 D. 244

12) Two representations of the same improper fraction:



This shows a mixed number. Which equals this decomposition?

- A. $1\frac{3}{5} = \frac{5}{5} + \frac{3}{5}$ C. $2\frac{1}{5} = \frac{10}{5} + \frac{1}{5}$
 B. $1\frac{2}{5} = \frac{5}{5} + \frac{2}{5}$ D. $\frac{8}{5} = \frac{2}{5} + \frac{5}{5}$

13) A candy store has 4 jars of gummies. Each jar holds 32 gummies. They also have 20 loose gummies. If they pack all gummies into bags of 6, how many complete bags can they fill?

- A. 23 C. 25
 B. 20 D. 24



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1) Order these fractions from least to greatest: $\frac{1}{6}$, $\frac{5}{12}$, $\frac{1}{2}$.

A. $\frac{1}{2}$, $\frac{5}{12}$, $\frac{1}{6}$

B. $\frac{1}{6}$, $\frac{5}{12}$, $\frac{1}{2}$

C. $\frac{5}{12}$, $\frac{1}{6}$, $\frac{1}{2}$

D. $\frac{1}{2}$, $\frac{1}{6}$, $\frac{5}{12}$

2) What is $8,432 - 3,657$?

A. 4,225

B. 5,775

C. 5,225

D. 4,775

3) Mason organized his trading cards by place value. He has 8 cards in the thousands group and 8 cards in the tens group. Which statement is true?

A. The thousands cards have a value 1,000 times the tens cards.

B. The tens cards have a value 10 times the thousands cards.

C. The values are equal.

D. The thousands cards have a value 100 times the tens cards.

4) What is $7 \times \frac{1}{10}$?

A. $\frac{7}{10}$

B. $\frac{10}{7}$

C. $\frac{1}{70}$

D. $\frac{7}{100}$

5) Two groups of students measured rope lengths. Group A: $\frac{1}{4}$ in, $\frac{1}{4}$ in, $\frac{2}{4}$ in. Group B: $\frac{2}{4}$ in, $\frac{2}{4}$ in, $\frac{3}{4}$ in. Which group has the longer total rope length?

A. Group A

B. Group B

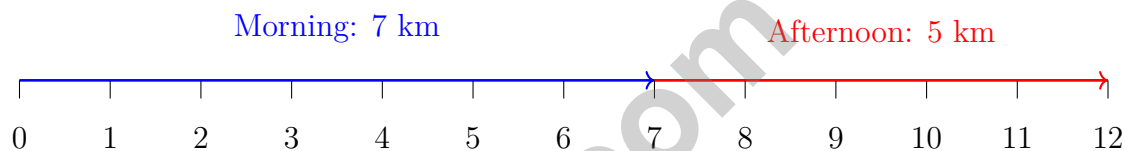
C. Both groups are equal

D. Cannot determine



- 6) Carlos divides 3,456 pages equally among 4 friends for a reading project. How many pages does each friend read?

- 7) A number line shows distances in kilometers. A walker travels from 0 km to 7 km in the morning, then 5 km more in the afternoon. What is the final distance from the start?



- A. 2 km C. 12 km
- B. 7 km D. 14 km
- 8) How many lines of symmetry does a regular octagon (8-sided polygon) have?
- A. 4 C. 8
- B. 6 D. 10
- 9) A rectangle's width is 7 feet. Its length is 2 times as long as its width. What is the length?
- A. 5 feet C. 3.5 feet
- B. 9 feet D. 14 feet



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& answers

- 1) What is the sum: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$?
- A. $\frac{5}{8}$ C. $\frac{1}{8}$
 B. $\frac{5}{40}$ D. $\frac{1}{5}$
- 2) Which fraction is equivalent to $\frac{2}{3}$ and has a denominator of 12?
- A. $\frac{6}{12}$ C. $\frac{9}{12}$
 B. $\frac{10}{12}$ D. $\frac{8}{12}$
- 3) A group has 73 cookies to pack into boxes of 12. How many complete boxes will they have? How many cookies will be left over?
- A. 6 boxes, 2 left C. 7 boxes, 1 left
 B. 5 boxes, 13 left D. 6 boxes, 1 left
- 4) Two cities are separated by a distance. City A to City C is 52,847 meters. City A to City B is 18,956 meters. How much farther is it from City A to City C than from City A to City B?
- A. 33,891 meters C. 34,891 meters
 B. 33,791 meters D. 32,891 meters
- 5) Look at the base-ten model below. Which number does it represent?

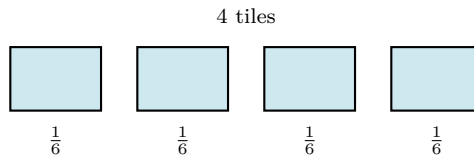


- A. 5,373 C. 5,307
 B. 3,570 D. 5,037



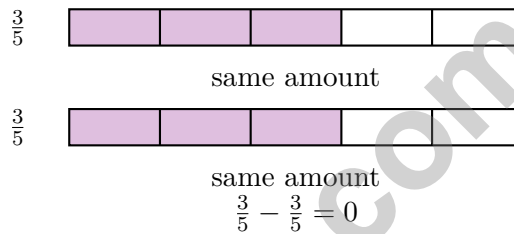
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6) Maya lined up 4 unit-fraction tiles. If each tile is $\frac{1}{6}$, what is the total?



- A. $\frac{1}{6}$
 C. $\frac{4}{6}$
 B. $\frac{2}{6}$
 D. $\frac{6}{6}$

7) Which two fractions have a difference of 0?



- A. $\frac{4}{8}$ and $\frac{3}{8}$
 C. $\frac{3}{5}$ and $\frac{3}{5}$
 B. $\frac{6}{6}$ and $\frac{4}{6}$
 D. $\frac{5}{12}$ and $\frac{7}{12}$

8) Ava is comparing two running times. Her first race was 0.55 seconds and her second race was 0.50 seconds. Which time was faster?

- A. 0.55 seconds (first race)
 C. Both are the same
 B. 0.50 seconds (second race)
 D. Cannot tell from the information

9) Diego walked $2\frac{3}{10}$ miles on Monday and $1\frac{4}{10}$ miles on Tuesday. How many miles did he walk in total?

- A. $3\frac{5}{10}$ miles
 C. $3\frac{7}{10}$ miles
 B. $3\frac{6}{10}$ miles
 D. $4\frac{1}{10}$ miles

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 A is correct.** (4.G.A.1) Perpendicular lines cross at a right angle — exactly 90° — and you can spot them by the tiny square symbol at the corner. Diagram A shows this perfect corner square.
- Choice B is correct.** (4.MD.A.2) There are 96 ounces of dried apples. Each bag holds 8 ounces. Divide: $96 \div 8 = 12$ bags. He needs **12** bags.
- Choice A is correct.** (4.MD.C.5) The measure of an angle equals the number of one-degree angles it turns through, so 40 one-degree angles equal 40° .
- Choice A is correct.** (4.NF.C.5) Compare the tenths place: $0 < 1 < 9$. For the two with tenths = 9, compare hundredths: $0 < 9$, so $0.90 < 0.99$.
- Choice B is correct.** (4.NF.B.3) The baker adds fourths: $3 + 2 = 5$ fourths, giving $\frac{5}{4}$. Since that's more than a whole cup, it's $1\frac{1}{4}$ cups.
- Choice A is correct.** (4.NBT.A.2) Choice A matches all three forms: standard 142,805, word form “one hundred forty-two thousand, eight hundred five”, and expansion $100,000 + 40,000 + 2,000 + 800 + 5$ ✓
- Choice B is correct.** (4.G.A.2) A rectangle has two pairs of parallel sides and all four right angles. Although opposite sides are equal in length, not all four sides must be equal. The answer is **B**.
- Choice B is correct.** (4.NF.B.3) The container starts with water shown in the picture. When some water is removed, subtract: $\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$ of the container remains filled.
- Choice B is correct.** (4.NF.B.4) Marcus reads $\frac{3}{12}$ of the book each day for 4 days. We multiply: $4 \times \frac{3}{12} = \frac{12}{12} = 1$ whole book.
- Choice D is correct.** (4.OA.B.4) Hunt for factors beyond 1 and 16. Since $16 = 2 \times 8 = 4 \times 4$, both 2 and 4 are factors. With factors 1, 2, 4, 8, 16 (more than two), 16 is **composite**.
- Choice A is correct.** (4.NBT.B.6) Long division: $1 \div 6 = 0$ r1, bring down the 4 to get $14 \div 6 = 2$ r2, bring down the 2 to get $22 \div 6 = 3$ r4, bring down the 8 to get $48 \div 6 = 8$. The answer is **238**.
- Choice A is correct.** (4.NF.B.3) Top bar is full (one whole). Bottom bar shows $\frac{3}{5}$ shaded. Together: $1 + \frac{3}{5} = 1\frac{3}{5}$ ✓.
- Choice D is correct.** (4.OA.A.3) Three steps! Step 1: gummies in the jars: $4 \times 32 = 128$. Step 2: add the loose ones: $128 + 20 = 148$. Step 3: pack into bags of 6: $148 \div 6 = 24$ remainder 4—so **24** complete bags (with 4 extra gummies).
- Choice C is correct.** (4.MD.B.4) On the line plot, $\frac{1}{4}$ inch has 2 X marks, while $\frac{3}{4}$ inch has 3 X marks. So $\frac{3}{4}$ inch has the most.
- Choice D is correct.** (4.OA.B.4) Columns grow: Figure 1 = 1, Figure 2 = $1 + 2 = 3$, Figure 3 = $1 + 2 + 3 = 6$. Figure 6 = $1 + 2 + 3 + 4 + 5 + 6 = 21$ unit squares.
- Choice D is correct.** (4.NBT.B.5) Break 15 into parts: $52 \times (10 + 5) = 520 + 260 = 780$.
- Choice B is correct.** (4.NF.B.3) Subtract the wholes: $3 - 1 = 2$. Subtract the fractions: $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$. The difference is $2\frac{2}{5}$.
- The correct answer is A, D.** (4.NF.C.5) Option A: Convert $\frac{3}{10} = \frac{30}{100}$, so $\frac{30}{100} + \frac{40}{100} = \frac{70}{100}$ (true). Option D: Divide by 10 to get $\frac{20}{100} = \frac{2}{10}$ (true). The others are false: B is reversed (7 tenths $<$ 65 hundredths), C is wrong ($\frac{5}{10} = \frac{50}{100}$, not $\frac{5}{100}$), and E is very wrong ($\frac{1}{10} \neq 1$).
- The correct answer is $\frac{3}{5}$.** (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 $6 > 5$, $\frac{3}{5}$ is greater.
- Choice B is correct.** (4.MD.C.5) In $\angle ABC$, point B is the vertex because it's the middle letter.
- Choice D is correct.** (4.OA.A.1) Two steps! First find the blue ribbons: $5 \times 4 = 20$. Then add the red ribbons to get the total: $5 + 20 = 25$ ribbons in all.
- Choice D is correct.** (4.MD.C.5) On a clock, 3 and 9 are opposite each other, forming a straight line. The angle between them is 180° .
- Choice B is correct.** (4.MD.A.3) To find how much fencing goes around the garden, we calculate perimeter: $P = 2(9) + 2(5) = 18 + 10 = 28$ ft.
- Choice C is correct.** (4.MD.A.1) Since 1 yard = 3 feet, multiply: $100 \times 3 = 300$ feet. The answer is **300** feet.



Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 4 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect 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 TODAY.
SUCCESS TOMORROW!**

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.



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 & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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