# 9 Iowa ISASP

## GRADE 4 MATH

## PRACTICE TESTS

Standards-Aligned Review with Mixed Practice and Answer Key

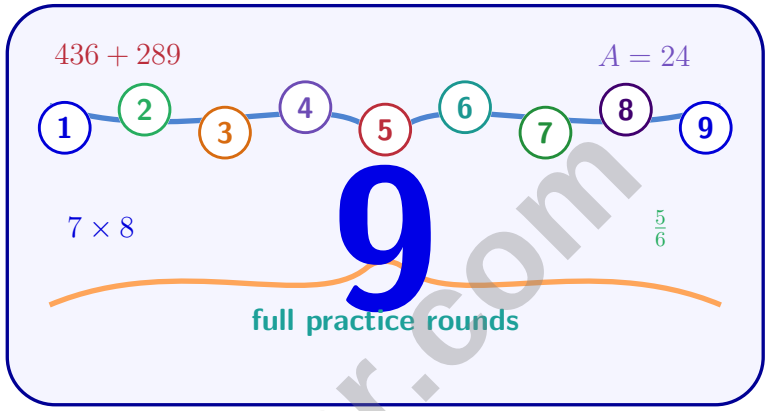
- **9 FULL-LENGTH** PRACTICE TESTS
- **STANDARDS-ALIGNED** REVIEW
- **MIXED PRACTICE** BUILD SKILLS & CONFIDENCE
- **ANSWER KEY** FOR ALL TESTS

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.**
**SUCCEED TOMORROW.**

# 9 Iowa ISASP Grade 4 Math Practice Tests

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




**Nine 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!

Nine steady rounds on the Hawkeye State math route

This book gives you nine 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.

# 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?

Nine tests, 270 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 7–9 | 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.

# Table of Contents

1) A line plot shows cat weights in eighths of a pound: $\frac{4}{8}$, $\frac{6}{8}$, $\frac{4}{8}$, $\frac{4}{8}$, $\frac{5}{8}$. Which weight has the most X marks?

☐ A. $\frac{4}{8}$ lb
☐ B. $\frac{5}{8}$ lb
☐ C. $\frac{6}{8}$ lb
☐ D. $\frac{7}{8}$ lb

2) Ava has $\frac{2}{5}$ of a candy bar. Diego gives her $\frac{2}{5}$ more. How much candy does Ava have now?

☐ A. $\frac{4}{10}$
☐ B. $\frac{4}{5}$
☐ C. $1\frac{1}{5}$
☐ D. $\frac{2}{10}$

3) 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. $0.6 = \frac{60}{100}$

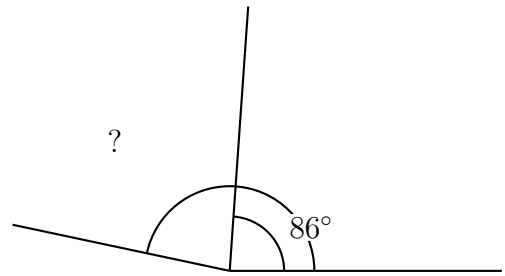
4) A baker makes cookies and sells them at $2 each. If she sells 18 cookies, how much money does she earn?

☐ A. $16
☐ B. $20
☐ C. $36
☐ D. $40

5) A farmer has 8,254 apples. Round to the nearest hundred.

☐ A. 8,200
☐ B. 8,250
☐ C. 8,300
☐ D. 8,000

6) A surveyor measures a land angle of 168°. A tree is planted such that it divides the angle into 86° and another part. What is the measure of the other part?




☐ A. 82°
☐ B. 86°
☐ C. 254°
☐ D. 90°

7) Ava eats 3 of 8 equal pizza slices. What fraction of the pizza did she eat?

8) A digit has a value of 600. In which place is this digit located?

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

9) Write $\frac{9}{10}$ as a decimal.

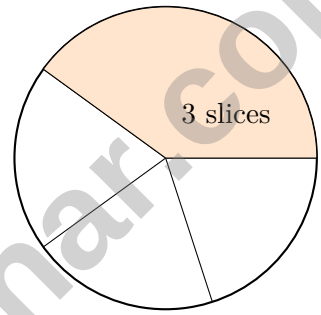
10) Which statement is true?

☐ A. 99,999 > 100,000
☐ B. 100,001 < 100,000
☐ C. 100,000 = 100,000
☐ D. 99,999 < 99,998

11) A field has 200 flowers. A gardener plants 40 more. Then all the flowers are divided into 8 equal garden sections. How many flowers are in each section?

☐ A. 25
☐ B. 35
☐ C. 28
☐ D. 30

12) A pie chart is divided into 5 equal slices. Each slice is $\frac{1}{5}$ of the whole. What fraction of the pie is 3 slices?




☐ A. $\frac{1}{5}$
☐ B. $\frac{3}{5}$
☐ C. $\frac{5}{3}$
☐ D. $\frac{3}{15}$

13) At a bakery, a cookie costs $0.49 and a donut costs $0.94. Which item costs less?

☐ A. Cookie ($0.49)
☐ B. Donut ($0.94)
☐ C. Both cost the same
☐ D. Cannot tell from prices

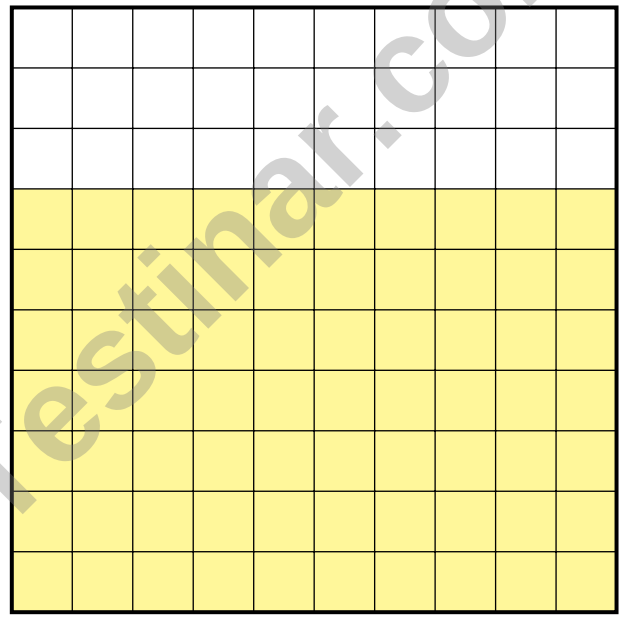
1) Which pattern shows all multiples of 6?

☐ A. $2, 4, 6, 8, 10$
☐ B. $6, 12, 18, 24, 30$
☐ C. $3, 6, 9, 12, 15$
☐ D. $5, 10, 15, 20, 25$

2) A student folds a piece of paper creating a crease. The angle on one side of the crease is 67°. If the total angle formed is 134°, what is the angle on the other side?

☐ A. 67°
☐ B. 68°
☐ C. 201°
☐ D. 134°

3) Decimal grids show place value. Which decimal matches the shaded grid?



Shaded: 70 out of 100

☐ A. 0.07
☐ B. 0.70
☐ C. 7.0
☐ D. 0.77

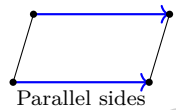
4) Round 44,556 to the nearest ten thousand.

☐ A. 44,000
☐ B. 50,000
☐ C. 45,000
☐ D. 40,000

5) Which shows a sum greater than 1?

☐ A. $\frac{5}{8} + \frac{4}{8}$
☐ B. $\frac{3}{6} + \frac{2}{6}$
☐ C. $\frac{4}{8} + \frac{2}{8}$
☐ D. $\frac{5}{10} + \frac{3}{10}$

6) Which figure has at least one pair of parallel sides?



Parallel sides marked

☐ A. Trapezoid
☐ B. Triangle
☐ C. Pentagon
☐ D. Hexagon

7) A letter has exactly one line of symmetry. How many lines of symmetry does it have?

8) Line segment $PQ$ and line segment $QP$ are:

☐ A. Different segments
☐ B. The same segment
☐ C. Perpendicular
☐ D. Parallel

1) What is $\frac{5}{10} + \frac{25}{100}$?

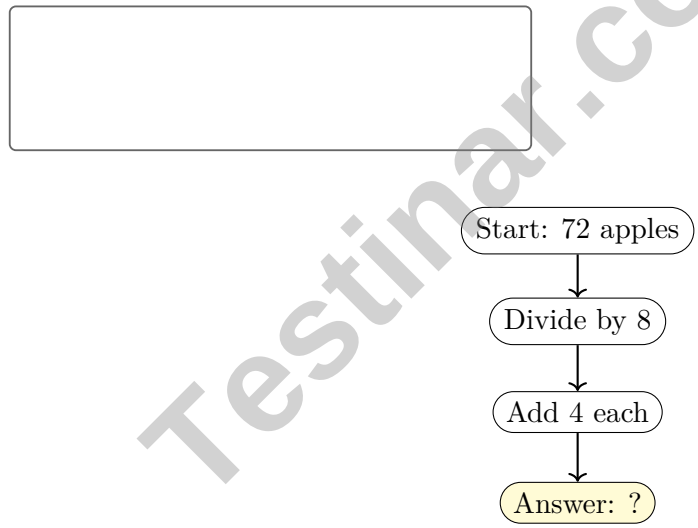
☐ A. $\frac{30}{100}$
☐ B. $\frac{75}{100}$
☐ C. $\frac{5}{25}$
☐ D. $\frac{30}{110}$

2) Sam has a strip of paper divided into 8 equal parts. He colors 5 parts. Which expression shows the fraction colored as a sum of unit fractions?

☐ A. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$
☐ B. $\frac{5}{8} + \frac{5}{8}$
☐ C. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$
☐ D. $\frac{5}{8}$

3) Find $\frac{5}{7} + \frac{3}{7}$ as a mixed number.

4)




A farmer has 72 apples. He puts them equally into 8 baskets. Then he adds 4 apples to each basket. How many apples are in each basket now?

☐ A. 12
☐ B. 14
☐ C. 13
☐ D. 15

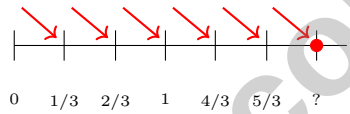
5) Add: $19{,}876 + 20{,}234 = ?$

☐ A. 39,110
☐ B. 40,210
☐ C. 39,210
☐ D. 40,110

6) Mia is comparing two prices. Socks cost \$0.80 and a pencil costs \$0.08. Which item costs more?

☐ A. The socks (\$0.80)
☐ B. The pencil (\$0.08)
☐ C. Both cost the same
☐ D. The pencil costs 10 times more

7) A number line shows jumps of $\frac{1}{3}$ starting at 0. If you make 6 jumps, where do you land?

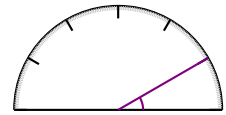



☐ A. $\frac{1}{3}$
☐ B. 1
☐ C. 2
☐ D. 3

8) What is $3 \times 456$?

☐ A. 1450
☐ B. 1600
☐ C. 1512
☐ D. 1368

9)



What is the measure of the angle shown?

☐ A. 30 degrees
☐ B. 45 degrees
☐ C. 60 degrees
☐ D. 90 degrees

# 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.**

# Practice Test Answers and Explanations

## Practice Test 1 Answers and Explanations

1) **Choice A is correct.** 4.MD.B.4 Count the weights: $\frac{4}{8}$ lb appears 3 times (the most!), $\frac{5}{8}$ lb once, and $\frac{6}{8}$ lb once. So $\frac{4}{8}$ lb has the most X marks.

2) **Choice B is correct.** 4.NF.B.3 Ava starts with $\frac{2}{5}$ and Diego adds $\frac{2}{5}$ more. With the same-size fifths, we get $2+2=4$ fifths: $\frac{4}{5}$.

3) **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.

4) **Choice C is correct.** 4.MD.A.2 Cookies sell for \$2 each. She sells 18 cookies, so multiply: $2\times 18=36$ dollars. She earns \$**36**.

5) **Choice C is correct.** 4.NBT.A.3 We're rounding to the nearest hundred. Look at the tens digit: 5. Since $5\geq 5$, we round UP! The hundreds digit changes from 2 to 3, so the farmer has about **8,300** apples. ✓

6) **Choice A is correct.** 4.MD.C.7 The tree divides the angle into two parts. Subtract to find the other: $168°-86°=$ **82°**.

7) **The correct answer is $\frac{3}{8}$.** 4.NF.B.3 Ava ate 3 slices out of 8, which is $\frac{3}{8}$. Breaking this into unit fractions: $\frac{1}{8}+\frac{1}{8}+\frac{1}{8}$.

8) **Choice C is correct.** 4.NBT.A.1 Read the value backwards: $600=6\times 100$. A digit's value equals digit × place value. Since the place value here is 100, the digit must be in the hundreds place. *Quick check:* the places are ones (×1), tens (×10), hundreds (×100), thousands (×1,000). ✓

9) **The correct answer is** 0.9. 4.NF.C.5 Nine tenths fills the first decimal place: $\frac{9}{10}=0.9$.

10) **Choice C is correct.** 4.NBT.A.2 Only C is true: 100,000 = 100,000. The other statements don't work: A and B involve different number sizes, and D reverses the comparison ✓

11) **Choice D is correct.** 4.OA.A.3 Two steps! Step 1: total flowers after planting more: $200+40=240$. Step 2: divide equally into 8 sections: $240\div 8=30$ flowers per section.

12) **Choice B is correct.** 4.NF.B.4 The pie has 5 equal slices. Three slices means $3\times\frac{1}{5}=\frac{3}{5}$.

13) **Choice A is correct.** 4.NF.C.5 Compare the tenths place: $4<9$, so $0.49<0.94$. The cookie costs less.

14) **Choice B is correct.** 4.NF.B.4 Eating 3 pieces, where each is $\frac{1}{9}$ of the bar, means we multiply: $3\times\frac{1}{9}=\frac{3}{9}$, which simplifies to $\frac{1}{3}$.

15) **Choice A is correct.** 4.MD.C.5 Divide the degrees by 360 to get the fraction: $\frac{60}{360}=\frac{1}{6}$ (simplifying by 60). Answer: $\frac{1}{6}$.

16) **Choice D is correct.** 4.OA.A.2 The bar model shows Diego's bar is twice as long as Miguel's—2 groups of 6. So multiply: $2\times 6=12$ cars.

17) **The correct answer is B, E.** 4.NF.B.3 Check A: $\frac{5}{6}-\frac{2}{6}=\frac{3}{6}$; no regrouping needed. Check B: $\frac{1}{5}<\frac{4}{5}$, so regroup: $3\frac{1}{5}=2\frac{6}{5}$. Regrouping is needed. Correct! Check C: This is addition, so it is not a mixed-number subtraction problem. Check D: $\frac{2}{10}-\frac{1}{10}=\frac{1}{10}$; no regrouping needed. Check E: $\frac{3}{8}<\frac{6}{8}$, so regroup: $2\frac{3}{8}=1\frac{11}{8}$. Regrouping is needed. Correct! B and E are the answers.

18) **Choice A is correct.** 4.NBT.B.6 Use long division: $16\div 8=2$, bring down the 2 to get $2\div 8=0$ r2, bring down the 4 to get $24\div 8=3$. Each shelf gets **203** books.

19) **Choice B is correct.** 4.MD.A.1 Since 1 liter = 1,000 milliliters, multiply: $5{,}000\times 1{,}000=5{,}000{,}000$ mL. The answer is **5,000,000** mL.

20) **Choice C is correct.** 4.NF.A.1 On the number line, $\frac{1}{2}$ is at position 6 and $\frac{3}{4}$ is at position 9. Since $6<9$, we have $\frac{1}{2}<\frac{3}{4}$.

21) **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. ✓

22) **Choice B is correct.** 4.NF.B.3 Sam used some string, so subtract the amount used from what he started with: $2\frac{2}{4}-1\frac{1}{4}=1\frac{1}{4}$ meters of string remains.

## Hi, Math Athlete!

◇ 9 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

⋆ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ⋆

**Athlete Performance**

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

**Trainer tip:** on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

**Jay Daie**

Your Math Trainer

# PRACTICE TODAY. ACHIEVE TOMORROW!

This Grade 4 Math Practice Tests book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

Whether used at home, in the classroom, or for independent review, this book provides meaningful practice that helps students grow stronger with every test.

## PERFECT FOR:

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

**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.

### Academic Success
Strengthen skills needed for future learning.

## TOPICS COVERED

- Place Value & Number Sense
- Multi-Digit Addition & Subtraction
- Multiplication & Division
- Fractions & Equivalent Fractions
- Geometry & Shapes
- Measurement & Data
- Perimeter & Area
- Word Problems
- Patterns & Algebraic Thinking
- Graphs & Data Interpretation
- Mathematical Reasoning
- And More!

Visit testinar.com/math4 for additional Grade 4 math resources and practice materials.

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.

## A COMPLETE PRACTICE EXPERIENCE TO HELP STUDENTS THRIVE!

- Builds Confidence Through Practice
- Strengthens Critical Thinking & Problem Solving
- Encourages Independent Learning
- Prepares Students for Future Success