

8

Iowa ISASP

GRADE 4

PRACTICE TESTS



1

$$2 \times 3 = 6$$

3

5

$$2 \times 3 = 6$$

2

4



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

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 Iowa ISASP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight 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!

Eight steady rounds on the Hawkeye State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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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5) What is $\frac{3}{2} - \frac{1}{2}$?

Start with $\frac{3}{2}$



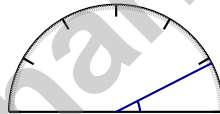
Take away $\frac{1}{2}$; ? remains

- | | |
|--|---|
| <input type="checkbox"/> A. $\frac{2}{4}$ | <input type="checkbox"/> C. $\frac{1}{2}$ |
| <input type="checkbox"/> B. $\frac{2}{2}$ or 1 | <input type="checkbox"/> D. $\frac{4}{2}$ |

6) A pie is cut into slices. One slice represents an angle of 40° and another slice represents an angle of 60° . If these two slices are placed together, what angle do they form?

- | | |
|--|---|
| <input type="checkbox"/> A. 20° | <input type="checkbox"/> C. 100° |
| <input type="checkbox"/> B. 60° | <input type="checkbox"/> D. 200° |

7)

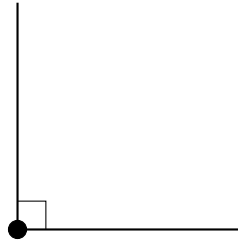


What is the measure of the angle shown?

- | | |
|--|--|
| <input type="checkbox"/> A. 25 degrees | <input type="checkbox"/> C. 30 degrees |
| <input type="checkbox"/> B. 27 degrees | <input type="checkbox"/> D. 32 degrees |



8) Which of these angles is a right angle?



- A. No, it is acute
- B. Yes, it has a small opening
- C. Yes, it has a square corner
- D. No, it is straight
- 9) A shop owner buys 5 bottles of cleaner, with 12 fluid ounces in each bottle. How many fluid ounces of cleaner does he buy?
- A. 17 fl oz
- B. 60 fl oz
- C. 65 fl oz
- D. 72 fl oz
- 10) How many unit fractions of $\frac{1}{2}$ make up $\frac{2}{2}$?
- A. 1
- B. 2
- C. 3
- D. 4
- 11) Olivia drives 6 hours each day for 15 days. If she drives 65 miles each hour, how far does she drive per day?
- A. 390 miles
- B. 330 miles
- C. 180 miles
- D. 450 miles



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1) A non-square rhombus has how many lines of symmetry?

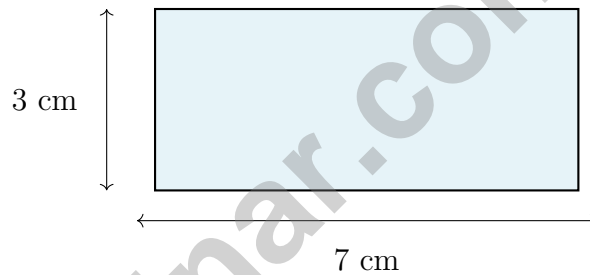
A. 0

C. 2

B. 1

D. 4

2) Mia had $\frac{9}{10}$ gallon of paint and used $\frac{4}{10}$. How much is left?



3)

What is the area of the rectangle shown above?

A. 10 sq cm

C. 21 sq cm

B. 20 sq cm

D. 28 sq cm

4) Ethan has 5 toy soldiers. Owen has 7 times as many. How many more soldiers does Owen have?

A. 12

C. 25

B. 35

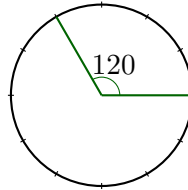
D. 30



5) Which shows the first four consecutive multiples of $\frac{1}{3}$ in order?

- A. $\frac{1}{3}, \frac{2}{3}, \frac{4}{3}, \frac{5}{3}$
 B. $\frac{1}{3}, \frac{2}{3}, \frac{3}{3}, \frac{4}{3}$

- C. $\frac{1}{3}, \frac{1}{6}, \frac{1}{9}, \frac{1}{12}$
 D. $\frac{1}{3}, \frac{2}{3}, \frac{3}{9}, \frac{4}{9}$



6)

An angle measures 120 degrees. How many one-degree angles make this angle?

- A. 60 one-degree angles
 B. 120 one-degree angles
 C. 240 one-degree angles
 D. 12 one-degree angles

7) A straight angle measures:

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

8) A coach has 3 teams. Team A has 18 players, Team B has 22 players, and Team C has 20 players. They want to divide all players equally into 8 groups. How many players are in each group, and how many players are left over?

- A. 15
 B. 8
 C. 6 remainder 2
 D. 7 remainder 4

9) What is the value of the thousands digit in 67,290?

- A. 7
 B. 70
 C. 700
 D. 7,000



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1) A recipe calls for $\frac{3}{5}$ cup of milk. If you double the recipe, how much milk do you need?

A. $\frac{3}{10}$ cup

B. $\frac{6}{5}$ cups (or $1\frac{1}{5}$ cups)

C. $\frac{5}{6}$ cup

D. $\frac{2}{5}$ cup

2) Maya painted $\frac{6}{9}$ of her bedroom wall on Monday and $\frac{2}{9}$ on Tuesday. What fraction of the wall did she paint in total?

3) Which is another way to write $\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$?

A. $\frac{3}{2}$

B. $\frac{1}{6}$

C. $\frac{2}{3}$

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

4) A right angle is made up of one-degree angles. How many one-degree angles make a right 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

- 1) **Choice D is correct.** (4.NBT.A.2) Thousands: 5, ones: 234. Combined: $5,000 + 234 = 5,234$ ✓
- 2) **Choice C is correct.** (4.G.A.2) Since one angle measures 95 degrees, which is greater than 90 degrees, this triangle is an obtuse triangle. The angle of 95 degrees is the obtuse angle. The answer is **C**.
- 3) **Choice C is correct.** (4.NF.B.4) Multiples of $\frac{1}{6}$ count by sixths. That gives us $\frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}, \frac{6}{6}, \dots$. But $\frac{2}{5}$ doesn't fit this pattern, so it's not a multiple.
- 4) **Choice D is correct.** (4.OA.B.4) Dots form odd-number rows: Figure 1 = 1, Figure 2 = $1 + 3 = 4$, Figure 3 = $1 + 3 + 5 = 9$. Figure 4 = $9 + 7 = 16$ dots.
- 5) **Choice B is correct.** (4.NF.B.3) Start with $\frac{3}{2}$ halves. Take away $\frac{1}{2}$: $3 - 1 = 2$ halves, which equals **1** whole.
- 6) **Choice C is correct.** (4.MD.C.7) When pie slices are combined, their angles add up: $40^\circ + 60^\circ = 100^\circ$.
- 7) **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.
- 8) **Choice C is correct.** (4.MD.C.5) A right angle has a perfect square corner, like the corner of a piece of paper.
- 9) **Choice B is correct.** (4.MD.A.2) Each bottle holds 12 fl oz. He buys 5 bottles, so multiply: $5 \times 12 = 60$ fl oz. He buys **60** fluid ounces total.
- 10) **Choice B is correct.** (4.NF.B.3) $\frac{2}{2}$ means the whole, which breaks into unit fractions: $\frac{2}{2} = \frac{1}{2} + \frac{1}{2}$. So there are **2** unit fractions of $\frac{1}{2}$.
- 11) **Choice A is correct.** (4.NBT.B.5) Multiply by parts: $6 \times (60 + 5) = 360 + 30 = 390$ miles per day.
- 12) **Choice D is correct.** (4.OA.A.3) Two steps! Step 1: add the new shipment: $100 + 35 = 135$ apples. Step 2: take away the ones sold: $135 - 42 = 93$ apples left.
- 13) **Choice B is correct.** (4.MD.C.5) The diagram shows a right angle between horizontal and vertical rays. The measure is **90**°.
- 14) **The correct answer is 2.** (4.OA.B.4) Find every pair that multiplies to 35: 1×35 and 5×7 . (No other small numbers divide 35 evenly.) So there are **2** factor pairs.
- 15) **The correct answer is A, D.** (4.NBT.B.6) Use long division: $15 \div 8 = 1$ r7, bring down the 1 to get $71 \div 8 = 8$ r7, bring down the 2 to get $72 \div 8 = 9$. The quotient is 189 with no remainder. Statements A and D are correct (each site gets exactly 189 bricks, and the quotient is 189). Statements B, C, and E are incorrect because there is no remainder, each site gets 189 not 190, and the first step has the wrong remainder.
- 16) **The correct answer is 8.** (4.MD.B.4) Count all the measurements: $\frac{1}{2}$ in appears 2 times, 1 in appears 4 times, and $\frac{3}{2}$ in appears 2 times. So $2 + 4 + 2 = 8$ data points total.
- 17) **Choice C is correct.** (4.NF.B.3) Since $\frac{4}{8} < \frac{5}{8}$, regroup: $5\frac{4}{8} = 4\frac{12}{8}$. Subtract: $4\frac{12}{8} - 2\frac{5}{8} = 2\frac{7}{8}$ pounds.
- 18) **Choice D is correct.** (4.OA.A.1) Step 1: find the guppies: $8 \times 6 = 48$. Step 2: "how many more" is a subtraction: $48 - 8 = 40$. The store has **40** more guppies than goldfish.
- 19) **Choice A is correct.** (4.NBT.B.4) Sam read pages on Monday and more on Tuesday, so we add. $234 + 189 = 423$ pages total.
- 20) **Choice A is correct.** (4.NF.B.4) With 4 bars, each showing $\frac{2}{4}$ shaded, we have $4 \times \frac{2}{4} = \frac{8}{4} = 2$ shaded in total.
- 21) **Choice A is correct.** (4.NF.C.5) Compare the tenths place first: $0 < 2 < 7$. For the two decimals with tenths = 7, compare hundredths: $0 < 2$, so $0.70 < 0.72$.
- 22) **Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest thousand. Look at the hundreds digit: 8. Since $8 \geq 5$, we round UP! The thousands digit changes from 6 to 7, so the answer is **57,000**. ✓
- 23) **Choice D is correct.** (4.G.A.1) Perpendicular segments cross at exactly 90° — look for that special little square symbol. Diagram D has it, showing two segments meeting perfectly at right angles.
- 24) **Choice B is correct.** (4.G.A.3) The letter M has two humps (peaks) that are exactly the same height and shape. A vertical line down the middle divides it into matching left and right halves. The answer is **1** line of symmetry.
- 25) **Choice B is correct.** (4.NF.C.5) To convert $\frac{6}{10}$, multiply numerator and denominator by 10: $\frac{6}{10} = \frac{6 \times 10}{10 \times 10} = \frac{60}{100}$.
- 26) **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 $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$ ✓.



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◇ You trained hard! 8 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
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- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

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