

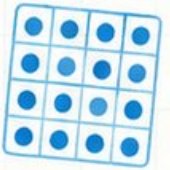
10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



$$\frac{3}{4}$$



Iowa ISASP

GRADE 4 MATH

PRACTICE TESTS

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

$$\begin{array}{r} 476 \\ + 258 \\ \hline 734 \end{array}$$



10 Iowa ISASP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Hawkeye State math route

This book gives you ten 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole Iowa book.
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.

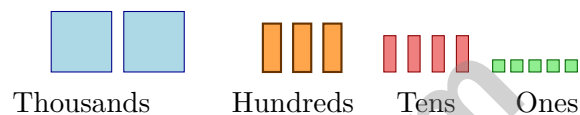


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For more practice
& answers

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- 1) Which numeral represents “two hundred thirty-four thousand, six hundred seventy-eight”?
- A. 243,678 C. 234,687
 B. 234,768 D. 234,678
- 2) Maya built a model of the number 2,345 using base-ten blocks. How many thousands blocks did she use?



- A. 5 C. 4
 B. 3 D. 2
- 3) Noah used $\frac{5}{6}$ of his paint to paint a fence. Maria used $\frac{3}{4}$ of her paint on a wall. Assuming they started with the same amount, who used more paint?
- A. Noah used more C. They used the same amount
 B. Maria used more D. Cannot determine
- 4) A pattern starts at 100 and subtracts 10 each time. What is the 6th term?
- A. 40 C. 60
 B. 70 D. 50
- 5) Tyler has 6 toy trains. His cousin has 4 times as many toy trains. How many toy trains does his cousin have?



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- 6) A line plot shows plant heights in halves of an inch. The measurements are: $\frac{1}{2}$ in, 1 in, $\frac{1}{2}$ in, $\frac{3}{2}$ in, 1 in, 1 in. How many X marks should be placed at 1 inch on the line plot?



- 7) A spinner makes a $\frac{1}{4}$ turn. How many degrees does it rotate?
- A. 45° C. 90°
 B. 60° D. 120°
- 8) At lunch, each child gets $\frac{1}{2}$ sandwich. If there are 8 children, how many sandwiches are needed?
- A. $\frac{1}{16}$ sandwich C. $\frac{7}{2}$ sandwiches (or $3\frac{1}{2}$ sandwiches)
 B. 4 sandwiches D. 8 sandwiches
- 9) Add: $12,345 + 23,456 = ?$
- A. 35,701 C. 35,711
 B. 36,801 D. 35,801
- 10) Ming has 50 cookies. She gives away 14 cookies. Then she puts the remaining cookies equally into 4 bags. How many cookies are in each bag?
- A. 12 C. 9
 B. 11 D. 8



11) A rectangle with unequal adjacent sides has how many lines of symmetry?

- A. 1 C. 3
 B. 2 D. 4

12) What is 78,234 rounded to the nearest hundred?

- A. 78,000 C. 78,230
 B. 78,300 D. 78,200

13) What fraction is equivalent to $\frac{1}{2}$?

- A. $\frac{2}{5}$ C. $\frac{3}{6}$
 B. $\frac{3}{5}$ D. $\frac{2}{3}$

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

A. Clock



B. Table corner



C. Pencil

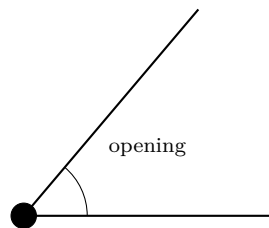


D. Slice of pie



- A. Clock C. Pencil
 B. Table corner D. Slice of pie

15)



The angle shown has a small opening. If we increased the opening to 130 degrees, would it be acute, right, obtuse, or straight?

- A. Acute C. Obtuse
 B. Right D. Straight



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1) Which two models show equivalent fractions?



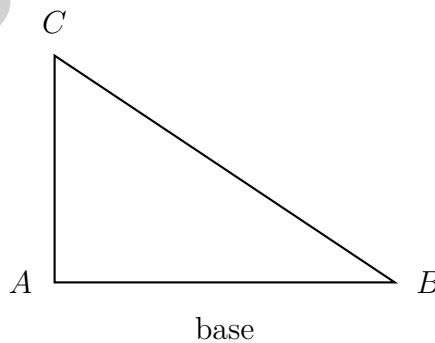
- A. Models A and B C. Models B and C
- B. All three D. Models A and C

2) How many degrees is a three-quarter turn around a circle?

- A. 90° C. 270°
- B. 180° D. 360°

3) In 130,800, what digit is in the hundreds place?

4) Look at this right triangle. Does it have any lines of symmetry?



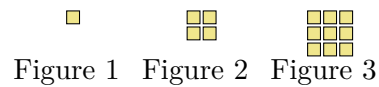
- A. Yes, it has 1 line C. No, it has 0 lines
- B. Yes, it has 2 lines D. Yes, it has 3 lines



1) Three students timed their sprints. Riley: 0.47 seconds. Jordan: 0.74 seconds. Casey: 0.44 seconds. Who was fastest (smallest time)?

- A. Riley (0.47 s) C. Casey (0.44 s)
 B. Jordan (0.74 s) D. Riley and Jordan tied

2) A geometric pattern grows with stacked shapes:



How many unit squares are in Figure 4?

- A. 25 C. 20
 B. 18 D. 16

3) Three hops of $\frac{1}{4}$ land at what fraction?

4) Is 41 prime or composite?

- A. Both C. Neither
 B. Composite D. Prime



5) Which decimal is equal to $\frac{35}{100}$?

A. 0.035

C. 3.5

B. 0.35

D. 35.0

6) Which expression correctly shows $2,961 \div 9$ with quotient and remainder?

A. 329 r1

C. 328 r9

B. 330 r1

D. 329 r0

7) An angle contains 65 one-degree angles. Write the measure of the angle.

8) A quadrilateral has two pairs of opposite sides that are equal and parallel. Is this figure a rectangle?

A. Yes, always

C. Only if it has right angles

B. No, never

D. Only if all four sides are equal

9) Noah ate $\frac{2}{8}$ of a sandwich. Write an equivalent fraction in simplest form to show what part of the sandwich Noah ate.



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For more practice
& answers

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 D is correct.** (4.NBT.A.2) Thousands: 234, ones: 678. Combined: $234,000 + 678 = 234,678$ ✓
- Choice D is correct.** (4.NBT.A.1) In 2,345, the thousands digit is 2. Each thousands block represents 1,000, so Maya used **2** thousands blocks. ✓
- Choice A is correct.** (4.NF.A.1) Find common denominator 12: $\frac{5}{6} = \frac{10}{12}$ and $\frac{3}{4} = \frac{9}{12}$. Since $\frac{10}{12} > \frac{9}{12}$, Noah used more paint.
- Choice D is correct.** (4.OA.B.4) Subtract 10 each time: 100, 90, 80, 70, 60, **50**. The 6th term is **50**.
- The correct answer is 24.** (4.OA.A.1) “4 times as many” tells us to multiply. The cousin has $6 \times 4 = \mathbf{24}$ trains.
- The correct answer is 3.** (4.MD.B.4) Count how many times 1 inch (which is $\frac{2}{2}$ inch) appears in our measurements: 1, 1, 1 = **3** times.
- Choice C is correct.** (4.MD.C.5) A quarter turn is $\frac{1}{4}$ of the full circle: $\frac{1}{4} \times 360^\circ = \mathbf{90^\circ}$.
- Choice B is correct.** (4.NF.B.4) Eight children each get $\frac{1}{2}$ sandwich. We multiply: $8 \times \frac{1}{2} = \frac{8}{2} = 4$ sandwiches are needed.
- Choice D is correct.** (4.NBT.B.4) Add from ones: $5 + 6 = 11$ (write 1, carry 1), $4 + 5 + 1 = 10$ (write 0, carry 1), $3 + 4 + 1 = 8$, $2 + 3 = 5$, $1 + 2 = 3$. The sum is **35,801**.
- Choice C is correct.** (4.OA.A.3) Two steps! Step 1: find how many cookies are left after giving some away. $50 - 14 = 36$ cookies. Step 2: equal bags means divide: $36 \div 4 = 9$ cookies per bag.
- Choice B is correct.** (4.G.A.3) A non-square rectangle is longer in one direction. Two fold lines balance it—one vertical through the middle and one horizontal through the middle. The answer is **2** lines of symmetry.
- Choice D is correct.** (4.NBT.A.3) We’re rounding to the nearest hundred. Look at the tens digit: 3. Since $3 < 5$, we round DOWN. The hundreds digit stays at 2, giving us **78,200**. ✓
- Choice C is correct.** (4.NF.A.1) Multiply both top and bottom by 3: $\frac{1}{2} = \frac{1 \times 3}{2 \times 3} = \frac{3}{6}$. This gives you more pieces, but they still cover the same amount!
- Choice B is correct.** (4.G.A.1) The corner where two edges of a table meet is a perfect right angle — exactly 90° ! Look at a corner of your desk to see a real-world right angle.
- Choice C is correct.** (4.MD.C.5) An angle of 130 degrees is more than 90 degrees but less than 180 degrees, making it obtuse.
- Choice A is correct.** (4.NF.B.3) The rope is colored with red, yellow, and blue sections shown in the picture. Step 1: Add red and yellow: $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$. Step 2: Blue is the remainder: $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$.
- The correct answer is A, D.** (4.NF.B.3) A: $3 + 4 = 7$ ✓. D: Seven unit tenths: $7 \times \frac{1}{10}$ ✓. Both work!
- Choice C is correct.** (4.MD.A.2) Each bracelet needs 18 cm of string. For 7 bracelets, multiply: $18 \times 7 = 126$ cm. He needs **126** centimeters of string.
- Choice C is correct.** (4.MD.A.3) Start with $P = 2\ell + 2w = 24$. Substitute $\ell = 7$: $2(7) + 2w = 24$. Simplify: $14 + 2w = 24$, so $2w = 10$, thus $w = 5$ m.
- Choice C is correct.** (4.G.A.2) A triangle has three sides, so it cannot have a pair of opposite sides. Parallel sides require opposite sides, which triangles do not have. Rectangles, parallelograms, and trapezoids all have parallel sides. The answer is **C**.
- Choice B is correct.** (4.NF.B.4) Lily reads $\frac{1}{3}$ of the book each day for 2 days. Multiply: $2 \times \frac{1}{3} = \frac{2 \times 1}{3} = \frac{2}{3}$ of the book. The answer is $\frac{2}{3}$ of the book.
- Choice C is correct.** (4.NF.B.3) Add the wholes: $3 + 1 = 4$. Add the fractions: $\frac{4}{6} + \frac{2}{6} = \frac{6}{6} = 1$. Since $\frac{6}{6}$ is a whole, combine: $4 + 1 = \mathbf{5}$.
- Choice D is correct.** (4.NBT.B.5) Split 16: $5 \times (10 + 6) = 50 + 30 = \mathbf{80}$ pages.
- The correct answer is 7.** (4.OA.A.2) The school’s 28 basketballs are 4 times the soccer balls. To find the smaller amount, divide: $28 \div 4 = \mathbf{7}$ soccer balls.
- Choice B is correct.** (4.NF.C.5) Think of it as 3 tenths. We can write $\frac{3}{10} = \frac{30}{100} = 0.30 = 0.3$.
- Choice A is correct.** (4.MD.C.5) Since the angle turns through 75 one-degree angles, it measures **75°**.



Math Detective at Work

Hi, Math Detective!

◇ You did such a great job! You finished 10 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

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- ✓ Perimeter, Area & Volume
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