

7

Iowa

ISASP

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

7 Iowa ISASP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Hawkeye State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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.



Scan me!
For more practice
& answers

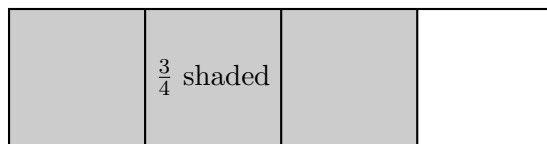
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- 1) A candy shop sells 3 large bags of candy. Each bag weighs 16 ounces. How many ounces is that total? If they sell for \$4 per bag, how much money do they make?
- A. 13 ounces and \$10 C. 48 ounces and \$16
 B. 16 ounces and \$12 D. 48 ounces and \$12
- 2) An angle is divided into 27 one-degree angles. What is the measure of the angle?
- A. 27° C. 54°
 B. 13.5° D. 270°
- 3) Simplify $\frac{5}{10}$ by dividing both numerator and denominator by 5. What fraction do you get?
- A. $\frac{1}{2}$ C. $\frac{5}{5}$
 B. $\frac{1}{5}$ D. $\frac{0}{5}$
- 4) Which statement is true about 0.5 and 0.5?
- A. They are not equal C. One is greater than the other
 B. They are equivalent D. They cannot be compared
- 5) Mia buys 4 ribbons, each one-sixth of a yard long. How long are all the ribbons together?
- A. $\frac{4}{6}$ yard C. $\frac{1}{24}$ yard
 B. 4 yards D. $\frac{6}{4}$ yard



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6) remove $\frac{1}{4}$; what remains?

A rectangle divided into 4 equal parts has 3 parts shaded (showing $\frac{3}{4}$). If one shaded part is removed, what fraction remains shaded?

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

7) In the decimal 0.72, which digit is in the tenths place?

- A. 0
- B. 7
- C. 2
- D. 72

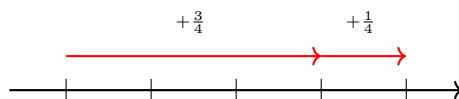
8) If a dot rotates $\frac{1}{8}$ of a full turn, how many degrees does it move?

- A. 30°
- B. 35°
- C. 45°
- D. 60°

9) Which attribute is true for a square?

- A. Four equal sides and four right angles
- B. Three angles and three sides
- C. One pair of parallel sides
- D. Four different side lengths

10) Which number line shows $\frac{3}{4} + \frac{1}{4} = 1$?



- A. Starts at 0, hops to $\frac{1}{2}$
- B. Starts at 0, hops to $\frac{3}{4}$, then to 1
- C. Starts at $\frac{1}{4}$, hops to 1
- D. Starts at $\frac{1}{2}$, hops to 1

- 11) A recipe needs 32 ounces of milk. The baker has 50 ounces. After making the recipe, how many ounces are left?

- 12) What are the factors of 15?

- A. 1, 3, 5, 9, 15 C. 3, 5, 15
 B. 1, 5, 15 D. 1, 3, 5, 15

- 13) If a figure has exactly 8 lines of symmetry, which of the following is it most likely?

- A. A square C. A regular octagon
 B. A regular pentagon D. A regular hexagon

- 14) A book bag weighs 5 kilograms. How many grams is this?

- A. 500 C. 50,000
 B. 5,000 D. 500,000

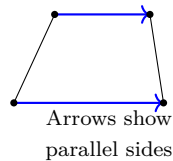
- 15) Which TWO problems have a product greater than 500?

- A. 20×26
 B. 20×22
 C. 17×25
 D. 19×28
 E. 21×19



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- 1) Look at the figure with arrows showing parallel sides. How many pairs of parallel sides does it have?

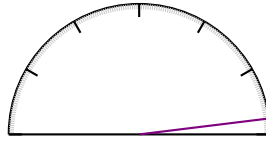


- A. Zero pairs
- B. One pair
- C. Two pairs
- D. Three pairs
- 2) A toy train travels 200 meters in 4 seconds. At this rate, how far will it travel in 8 seconds?
- A. 200 m
- B. 300 m
- C. 400 m
- D. 600 m
- 3) A cake is divided into 2 equal halves. Both halves are eaten. Which shows this as a sum of unit fractions?
- A. $\frac{1}{2}$
- B. $\frac{1}{2} + \frac{1}{2}$
- C. $\frac{2}{2}$
- D. $\frac{1}{1}$
- 4) Nina has 4 apples. Her friend Tara has 6 times as many apples. How many apples does Tara have?
- A. 10
- B. 2
- C. 20
- D. 24



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5)



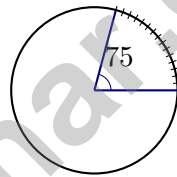
A student said this angle measures 173 degrees. Is she correct?

- A. Yes, the angle is close to 180 degrees C. Yes, all small angles are close to 180 degrees
 B. No, the angle is much smaller, around 7 degrees D. No, you cannot measure angles smaller than 30 degrees

6) Which fraction equals $7 \times \frac{1}{3}$?

- A. $\frac{3}{7}$ C. $\frac{1}{21}$
 B. $\frac{7}{3}$ or $2\frac{1}{3}$ D. $\frac{7}{7}$

7)



This angle shows tick marks from 0 to 75. What is the measure of the angle?

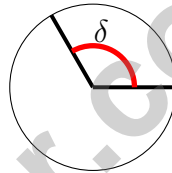
- A. 74° C. 76°
 B. 75° D. 150°



1) A toy costs \$15. If Maya buys 5 toys, how much money does she spend in total?

2) Which shape has perpendicular sides and all angles of 90 degrees?

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> A. Acute triangle | <input type="checkbox"/> C. Rectangle |
| <input type="checkbox"/> B. Obtuse triangle | <input type="checkbox"/> D. Trapezoid |



3)

What is the measure of angle δ in the diagram?

- | | |
|---|---|
| <input type="checkbox"/> A. 90° | <input type="checkbox"/> C. 150° |
| <input type="checkbox"/> B. 120° | <input type="checkbox"/> D. 180° |

Boxes and Balls

5 boxes: 55 balls

Balls per box = ?

4)

A store arranges 5 boxes of balls. If there are 55 balls total, how many balls are in each box?

- | | |
|--------------------------------|--------------------------------------|
| <input type="checkbox"/> A. 9 | <input type="checkbox"/> C. 10 |
| <input type="checkbox"/> B. 12 | <input type="checkbox"/> D. 11 balls |



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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.OA.A.3) Two separate questions in one—both use multiplication! Step 1: total weight = 3 bags \times 16 ounces = 48 ounces. Step 2: total money = 3 bags \times \$4 = \$12. So the answer must include both pieces: 48 ounces and \$12.
- 2) **Choice A is correct.** (4.MD.C.5) An angle made of 27 one-degree angles has a measure of 27° .
- 3) **Choice A is correct.** (4.NF.A.1) Divide both numerator and denominator by 5: $\frac{5}{10} = \frac{5 \div 5}{10 \div 5} = \frac{1}{2}$.
- 4) **Choice B is correct.** (4.NF.C.5) Of course! Any number equals itself. $0.5 = 0.5$. They're the same value.
- 5) **Choice A is correct.** (4.NF.B.4) Each ribbon is $\frac{1}{6}$ yard. With 4 ribbons, the total length is $4 \times \frac{1}{6} = \frac{4}{6}$ yard.
- 6) **Choice B is correct.** (4.NF.B.3) The picture shows a rectangle with 3 out of 4 parts shaded. When one shaded part is removed, subtract: $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$ remains shaded.
- 7) **Choice B is correct.** (4.NF.C.5) In the decimal 0.72, the first number after the decimal point is 7 (tenths place). The second is 2 (hundredths place).
- 8) **Choice C is correct.** (4.MD.C.5) One-eighth of the circle is $\frac{1}{8} \times 360^\circ = 45^\circ$.
- 9) **Choice A is correct.** (4.G.A.2) A square has two essential properties: four sides of equal length and four right angles at each corner. This combination of properties is unique to squares. The answer is **A**.
- 10) **Choice B is correct.** (4.NF.B.3) Starting at 0, the first hop goes right by $\frac{3}{4}$. The second hop adds $\frac{1}{4}$ more, landing exactly at 1. That's $\frac{3}{4} + \frac{1}{4} = 1$.
- 11) **The correct answer is 18 oz.** (4.MD.A.2) The baker has 50 ounces and uses 32 ounces. Subtract: $50 - 32 = 18$ ounces. There are 18 ounces left.
- 12) **Choice D is correct.** (4.OA.B.4) Find every number that divides 15 evenly. Pair them up: 1×15 and 3×5 . So the factor list is 1, 3, 5, 15. (Note that 1 and the number itself are always factors!)
- 13) **Choice C is correct.** (4.G.A.3) A regular octagon (8 equal sides) balances beautifully in eight ways. Four lines pass through opposite corners, and four pass through the middle of opposite sides. The answer is A regular octagon.
- 14) **Choice B is correct.** (4.MD.A.1) Since 1 kilogram = 1,000 grams, multiply: $5 \times 1,000 = 5,000$ g. The answer is **5,000** g.
- 15) **The correct answer is A, D.** (4.NBT.B.5) Calculate each: A: 520, B: 440, C: 425, D: 532, E: 399. Only A ($520 > 500$) and D ($532 > 500$) exceed 500.
- 16) **The correct answer is 392.** (4.OA.A.1) "7 times as many" means multiply: 56×7 . A handy way to think about it: $50 \times 7 = 350$ and $6 \times 7 = 42$, so $350 + 42 = 392$ donuts.
- 17) **Choice D is correct.** (4.NBT.A.2) Counting from the right: ones, tens, hundreds, thousands. The thousands digit is 2 ✓
- 18) **Choice B is correct.** (4.NF.B.3) $\frac{5}{7}$ means we have 5 equal pieces, and each piece is $\frac{1}{7}$. So **5** unit fractions of $\frac{1}{7}$ make up $\frac{5}{7}$.
- 19) **Choice D is correct.** (4.NBT.B.4) In the ones place: $0 < 8$, so regrouping is needed. The tens place is zero, so we must regroup from the hundreds place.
- 20) **Choice C is correct.** (4.NF.C.5) Multiply both the numerator and denominator by 10 to convert: $\frac{9}{10} = \frac{90}{100}$.
- 21) **Choice C is correct.** (4.G.A.1) An acute angle is small and pointy — less than 90° . Diagram C opens just a tiny bit (around 28°), so it's acute. The others are obtuse or right angles.
- 22) **Choice B is correct.** (4.MD.A.3) Using $P = 2\ell + 2w = 50$ with $\ell = 15$: $2(15) + 2w = 50$. Simplify: $30 + 2w = 50$, so $2w = 20$, thus $w = 10$ ft.
- 23) **The correct answer is $5\frac{1}{4}$.** (4.NF.B.3) Add the wholes: $3 + 1 = 4$. Add the fractions: $\frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$. Combine: $4 + 1\frac{1}{4} = 5\frac{1}{4}$.
- 24) **Choice B is correct.** (4.MD.C.5) A right angle always measures **90** degrees.
- 25) **Choice C is correct.** (4.NF.A.1) Equivalent fractions in disguise: $\frac{1}{5} = \frac{2}{10}$. Both ate the same amount of pizza.
- 26) **Choice C is correct.** (4.NF.B.4) Sarah makes 8 equal hops of $\frac{1}{12}$ each: $8 \times \frac{1}{12} = \frac{8}{12}$.



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Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 7 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

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- ✓ Skill Reinforcement

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Test Confidence

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Track Progress

Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
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