

3

Iowa ISASP

GRADE 4

MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**5 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
QUESTIONS**



**ANSWER KEY
INCLUDED**

$$a^2 + b^2 = c^2$$

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



3 Iowa ISASP Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, Iowa ISASP strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome, Iowa Math Explorer!

Three steady rounds on the Hawkeye State math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

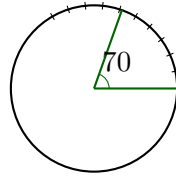
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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1)

The angle shown measures 70 degrees. How many one-degree angles is this?

- A. 35 one-degree angles C. 140 one-degree angles
 B. 70 one-degree angles D. 7 one-degree angles

2) In the number 1,111, which relationship is true?

Thousands	Hundreds	Tens	Ones
1	1	1	1

- A. The ones value is 10 times the tens value. C. The tens value is 100 times the ones value.
 B. The thousands value is 10 times the tens value. D. The hundreds value is 10 times the tens value.

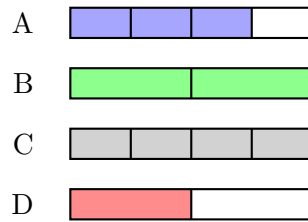
3) Noah wants to carpet his bedroom floor. The room is a rectangle that is 14 feet long and 10 feet wide. How many square feet of carpet does he need?

- A. 24 sq ft C. 140 sq ft
 B. 48 sq ft D. 280 sq ft

4) What is $7 \times \frac{1}{3}$ as a fraction?


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5) Which picture shows $\frac{3}{4}$ as a sum of unit fractions?



A. 3 of 4 parts

C. 4 of 4 parts

B. 2 of 2 parts

D. 1 of 2 parts

6) Which of the following is a right angle?

A. An angle less than 90°

C. An angle greater than 90° but less than 180°

B. An angle equal to 90°

D. An angle equal to 180°

7) Which is a multiplicative comparison?

A. 10 is 2 times as many as 5

C. 10 is 5 less than 15

B. 10 is 5 more than 5

D. 10 equals 5 plus 5

8) What is $4 \times \frac{2}{5}$?

A. $\frac{4}{5}$

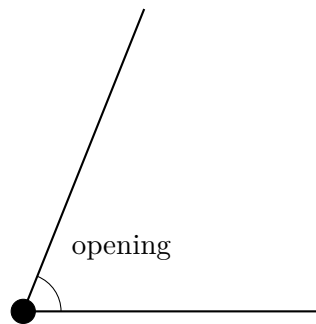
C. $\frac{8}{20}$

B. $\frac{6}{5}$

D. $\frac{8}{5}$

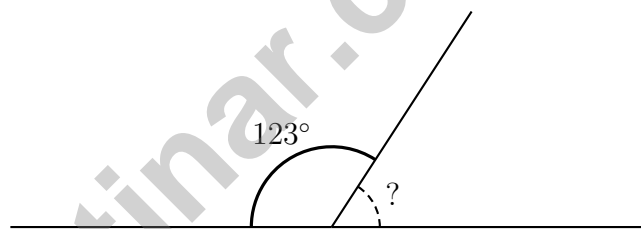


9)



The diagram shows an angle with a small opening. Which type of angle is this?

- A. A right angle
- B. An acute angle
- C. An obtuse angle
- D. A straight angle
- 10) A straight line is marked at a point. On one side of the point, an angle measures 123° . What is the measure of the angle on the other side of the point?



- A. 123°
- B. 57°
- C. 180°
- D. 90°
- 11) At the farmers market, Noah's apple weighs 0.22 kg and Lin's apple weighs 0.27 kg. Whose apple is heavier?
- A. Noah's apple (0.22 kg)
- B. Lin's apple (0.27 kg)
- C. Both apples weigh the same
- D. Cannot tell without more information



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1) Compare: 7,249 rounded to the nearest hundred vs. 7,251 rounded to the nearest hundred.

- A. Both round to 7,200 C. 7,249 → 7,200 and 7,251 → 7,300
 B. Both round to 7,300 D. 7,249 → 7,300 and 7,251 → 7,200

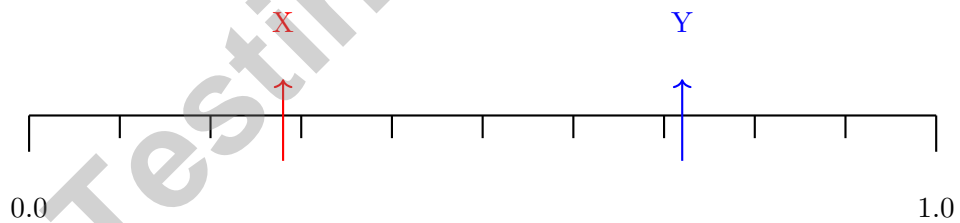
2) Noah mixed together 3 batches of paint. Each batch is $\frac{1}{6}$ gallon. How many gallons of paint does Noah have?

- A. $\frac{1}{6}$ gallon C. $\frac{4}{6}$ gallon
 B. $\frac{2}{6}$ gallon D. $\frac{1}{2}$ gallon (same as $\frac{3}{6}$)

3) Which is true?

- A. $\frac{8}{10} > \frac{90}{100}$ C. $\frac{8}{10} < \frac{50}{100}$
 B. $\frac{8}{10} = \frac{80}{100}$ D. $\frac{8}{10} = \frac{8}{100}$

4) Look at the number line below with two decimals marked.



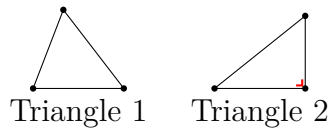
Which statement is true?

- A. $X = 0.28$ and $Y = 0.72$; $X < Y$ C. $X = 0.82$ and $Y = 0.27$; $X < Y$
 B. $X = 0.28$ and $Y = 0.72$; $X > Y$ D. X and Y cannot be compared



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5) Look at the two triangles. Which one is a right triangle?



- A. Triangle 1 C. Both triangles
 B. Triangle 2 D. Neither triangle
- 6) An art class has 8 paintbrushes. Another art class has 4 times as many paintbrushes. How many paintbrushes does the other class have?
- A. 12 C. 32
 B. 24 D. 40
- 7) If a digit is in the thousands place, and another identical digit is in the ones place, how many times greater is the value of the thousands digit?
- A. 10 C. 1,000
 B. 100 D. 10,000
- 8) Which comparison is correct?
- A. $456,200 > 456,300$ C. $189,450 = 189,451$
 B. $345,678 < 345,667$ D. $234,567 < 234,576$
- 9) What is $100,000 - 67,234$?
- A. 32,766 C. 32,666
 B. 33,766 D. 33,666



1) Is 23 prime or composite?

- A. It depends C. Neither
 B. Composite D. Prime

2) What is the remainder when 762 is divided by 9?

- A. 2 C. 6
 B. 4 D. 8

3) What is $\frac{7}{12} + \frac{2}{12}$?

- A. $\frac{9}{24}$ C. $\frac{14}{12}$
 B. $\frac{9}{12}$ D. $\frac{5}{12}$

4) Starting at 12, the minute hand moves to 3. What angle has it swept?

- A. 30° C. 90°
 B. 60° D. 120°

5) A digit 6 moves from the hundreds place to the thousands place. By what factor does its value increase?

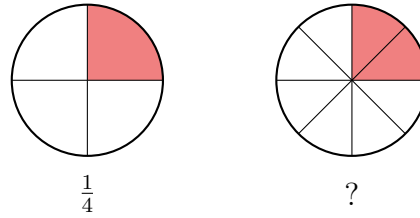
- A. 6 C. 1,000
 B. 100 D. 10

6) Each plant needs $\frac{1}{6}$ gallon of water. Olivia has 8 plants. How much water does she need?

- A. $\frac{1}{48}$ gallon C. $\frac{7}{6}$ gallon
 B. $\frac{8}{6}$ gallon or $1\frac{1}{3}$ gallons D. $\frac{8}{1}$ gallon



7) Look at the two circle models. They are the same size.



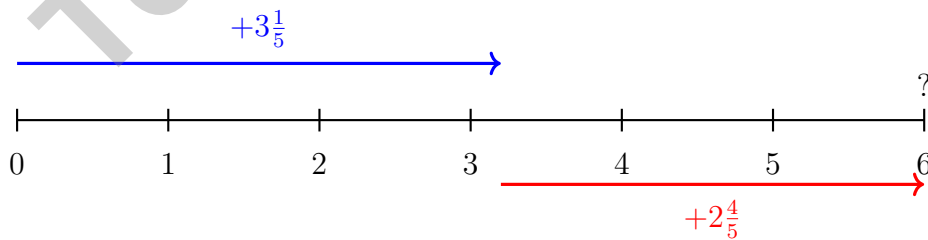
Which fraction should replace the question mark?

- A. $\frac{2}{8}$
- C. $\frac{4}{8}$
- B. $\frac{1}{8}$
- D. $\frac{3}{8}$

8) Write 0.42 as a fraction with denominator 100.

9) A straight angle measures how many degrees?

- A. 90 degrees
- C. 150 degrees
- B. 180 degrees
- D. 120 degrees



10)

Using the number line, what is $3\frac{1}{5} + 2\frac{4}{5}$?

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



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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

- Choice B is correct.** (4.MD.C.5) The angle shown measures 70° , made from 70 one-degree angles.
- Choice D is correct.** (4.NBT.A.1) In 1,111: hundreds place is worth 100 and tens place is worth 10. Since $100 \div 10 = 10$, the hundreds is 10 times the tens. Statement A is true. ✓
- Choice C is correct.** (4.MD.A.3) Carpet needed = $14 \times 10 = 140$ sq ft.
- The correct answer is $\frac{7}{3}$.** (4.NF.B.4) When we multiply $7 \times \frac{1}{3}$, we get 7 copies of $\frac{1}{3}$. This is written as the fraction $\frac{7}{3}$.
- Choice A is correct.** (4.NF.B.3) $\frac{3}{4}$ shows 3 shaded parts out of 4 equal parts. Since each part is $\frac{1}{4}$, we have $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ —three unit fractions added.
- Choice B is correct.** (4.G.A.1) A right angle is a special angle that measures exactly 90° . Think of the corner of your notebook — that's a right angle! Acute angles are smaller, obtuse angles are bigger, and straight angles are perfectly flat at 180° .
- Choice A is correct.** (4.OA.A.1) Look for the magic words “times as many”—those are the multiplicative clue. Only choice A uses them. The others say “more,” “less,” or “plus,” which describe addition or subtraction.
- Choice D is correct.** (4.NF.B.4) We have 4 copies of $\frac{2}{5}$. Multiply the whole number by the numerator: $4 \times \frac{2}{5} = \frac{4 \times 2}{5} = \frac{8}{5}$. The answer is $\frac{8}{5}$.
- Choice B is correct.** (4.MD.C.5) An acute angle has a small opening, smaller than a right angle.
- Choice B is correct.** (4.MD.C.7) On a straight line, angles on both sides add to 180° . Subtract to find the other: $180^\circ - 123^\circ = 57^\circ$.
- Choice B is correct.** (4.NF.C.5) The tenths place is the same for both (2 tenths). Compare the hundredths: $7 > 2$, so $0.27 > 0.22$. Lin's apple is heavier.
- The correct answer is 645.** (4.NBT.B.5) Identify the multiplication: 15 rows with 43 plants each. Calculate: $15 \times 43 = 15 \times (40 + 3) = 600 + 45 = 645$ plants.
- Choice B is correct.** (4.NF.C.5) 0.6 is the decimal form of six tenths: $0.6 = \frac{6}{10}$.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest ten thousand. Look at the thousands digit: 5. Since $5 \geq 5$, we round UP! The ten thousands digit changes from 5 to 6, giving us **60,000**. ✓
- Choice D is correct.** (4.OA.B.4) Check the differences: $18 - 9 = 9$, $27 - 18 = 9$. Each increases by 9 (multiples of 9). ✓
- Choice A is correct.** (4.NF.A.1) Bag 1 has $\frac{4}{8}$ stickers. Simplify: $\frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$. Bag 2 has $\frac{2}{4} = \frac{1}{2}$ also. Same amount!
- Choice C is correct.** (4.G.A.3) A regular hexagon (6 equal sides) is perfectly balanced in six ways. Lines can pass through opposite corners, or through the middle of opposite sides—each creates matching halves. The answer is **6** lines of symmetry.
- The correct answer is A, C.** (4.NF.B.4) A: Four runs of $\frac{3}{5}$ mile each means $4 \times \frac{3}{5}$. C: Four cookies at $\frac{3}{5}$ ounce each means $4 \times \frac{3}{5}$. B would be $3 \times$ (tripling), D is $2 \times$ (two bottles), E is division.
- The correct answer is $\frac{4}{8}$.** (4.NF.B.3) We need numerators to sum to 6. We have 2, so the missing piece is $6 - 2 = 4$ eighths: $\frac{4}{8}$. ✓
- Choice B is correct.** (4.MD.C.6) The ray points to the 165° mark, which is 15° shy of the 180° straight angle. Since 165° is between 90° and 180° , it's obtuse. The answer is **165** degrees.
- Choice C is correct.** (4.MD.B.4) Count all the X marks across the entire line plot: $1 + 2 + 3 + 1 + 1 = 8$ data points in total.
- Choice C is correct.** (4.NF.C.5) The dot is at the third mark out of 10 equal marks, so it shows $\frac{3}{10}$.
- Choice A is correct.** (4.NF.B.4) Four fifths: $4 \times \frac{1}{5} = \frac{4}{5}$.
- Choice B is correct.** (4.NF.A.1) All four fractions have numerator 1. Bigger denominators = smaller pieces. So fifths are smaller than thirds: $\frac{1}{5} < \frac{1}{3}$.
- Choice D is correct.** (4.OA.A.2) Liam's 40 pennies are 5 times the friend's amount. To find the friend's amount, divide: $40 \div 5 = 8$ pennies.



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Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 3 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 designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 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.



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
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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