

# 8

# Hawaii

Smarter Balanced

## 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 Hawaii Smarter Balanced Grade 4 Math Practice Tests

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



Eight complete 30-question Grade 4 practice rounds for Smarter Balanced, built around island trails, ocean patterns, and calm step-by-step thinking, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Hawaii Math Explorer!

Eight steady rounds on the Aloha State math route

This book gives you eight full Grade 4 practice tests for Smarter Balanced. Each round uses island trails, ocean patterns, and calm step-by-step thinking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Hawaii 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 Hawaii Smarter Balanced 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 Aloha 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 Smarter Balanced 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

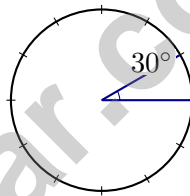
# Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	39
★ Practice Test 4	_____	50
★ Practice Test 5	_____	61
★ Practice Test 6	_____	73
★ Practice Test 7	_____	84
★ Practice Test 8	_____	96
<b>Practice Test Answer Keys</b>	_____	<b>107</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>108</b>

1) Noah baked cookies and ate  $\frac{2}{6}$  of them. His sister ate  $\frac{3}{6}$ . How many cookies were eaten?

- A.  $\frac{5}{12}$  of the cookies
- B.  $\frac{5}{6}$  of the cookies
- C.  $\frac{1}{6}$  of the cookies
- D. All cookies

2) Write 0.7 in hundredths.

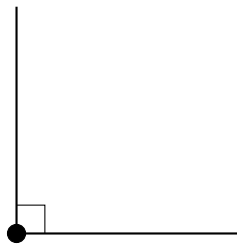


3)

Ava's angle measures  $30^\circ$ . How many one-degree angles does it contain?

- A. 15 one-degree angles
- B. 30 one-degree angles
- C. 60 one-degree angles
- D. 3 one-degree angles

4) 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



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5) A pizza is cut into 6 equal slices. Max ate 2 slices. Another pizza was cut into 3 equal slices, and Cole ate 1 slice. If both pizzas started the same size, did Max and Cole eat equivalent amounts?

- A. Yes, both ate  $\frac{1}{3}$
- B. Yes, both ate  $\frac{1}{2}$
- C. No, Max ate more
- D. No, Cole ate more

6) What is the area of a rectangle that is 10 inches long and 3 inches wide?

- A. 13 sq in
- B. 26 sq in
- C. 30 sq in
- D. 33 sq in

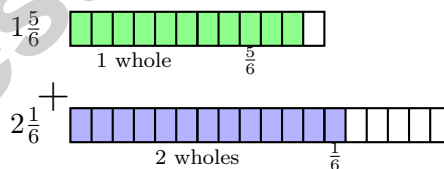
7) Compare these two numbers using a place-value chart:

	Thousands	Hundreds	Tens	Ones
Number 1	3	4	2	5
Number 2	3	4	5	0

Which is correct?

- A.  $3,450 < 3,425$
- B.  $3,425 > 3,450$
- C.  $3,425 = 3,450$
- D.  $3,425 < 3,450$

8)



What is the sum shown by the bar diagrams?

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

9) Liam collected 40 pennies. Liam collected 5 times as many pennies as his friend. How many pennies did his friend collect?

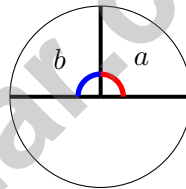
- A. 45                                       C. 35  
 B. 20                                       D. 8

10) Round 31,456 to the nearest hundred.

- A. 31,400                                       C. 31,450  
 B. 31,000                                       D. 31,500

11) Which number is divisible by 3?

- A. 25     C. 48  
 B. 34     D. 55



12)

Angles  $a$  and  $b$  are marked in the diagram. What is the sum  $a + b$ ?

- A.  $90^\circ$      C.  $270^\circ$   
 B.  $180^\circ$      D.  $360^\circ$

13) A library had 15,000 books. After a donation, they received 4,567 more books. How many books does the library have now?



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1) A spinner is divided into sections by angles. Three sections measure  $50^\circ$ ,  $60^\circ$ , and  $70^\circ$ . What is their combined angle measure?

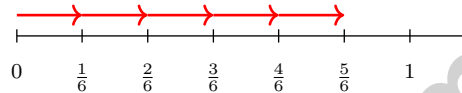
A.  $110^\circ$

C.  $180^\circ$

B.  $130^\circ$

D.  $120^\circ$

2) A number line shows unit-fraction jumps of  $\frac{1}{6}$  starting at 0. After 5 jumps, you are at position:



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

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

B.  $\frac{4}{6}$

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

3) An array has 27 rows and 14 columns. How many items are in the array?

A. 378

C. 324

B. 348

D. 405

4) What is  $\frac{5}{6} - \frac{2}{6}$ ?

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

C.  $\frac{2}{6}$

B.  $\frac{7}{6}$

D.  $\frac{3}{12}$

5) Which fraction is equivalent to  $\frac{1}{5}$  and has a denominator of 10?

A.  $\frac{1}{10}$

C.  $\frac{3}{10}$

B.  $\frac{5}{10}$

D.  $\frac{2}{10}$



6) Which is NOT a valid decomposition of  $\frac{12}{10}$ ?

A.  $\frac{10}{10} + \frac{2}{10}$

B.  $\frac{5}{10} + \frac{5}{10} + \frac{2}{10}$

C.  $\frac{8}{10} + \frac{3}{10}$

D.  $\frac{6}{10} + \frac{6}{10}$

7) What is the rule for this pattern? 9, 18, 27, 36, 45, ...

A. Add 8

B. Multiply by 3

C. Multiply by 2

D. Add 9 (multiples of 9)

8) How many multiples of 6 are there from 1 to 50?

A. 7

B. 10

C. 9

D. 8

9)

Alex



Claire

Alex has 4 marbles. Claire has 2 times as many marbles as Alex. How many marbles does Claire have?

A. 6

B. 12

C. 10

D. 8

10) A garden hose is 50 feet long. How many whole yards is this?

A. 15

B. 16

C. 17

D. 18



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& answers

1) A right angle is split into two smaller angles. One angle measures  $28^\circ$  more than the other. If the smaller angle is  $31^\circ$ , what is the measure of the other angle?

A.  $59^\circ$

C.  $90^\circ$

B.  $31^\circ$

D.  $62^\circ$

2) The minute hand moves from 12 to 4. How many degrees has it rotated?

A.  $90^\circ$

C.  $180^\circ$

B.  $120^\circ$

D.  $240^\circ$

3) A baker makes muffins in batches. She makes 6 batches, each with 24 muffins. If she sells muffins in boxes of 9, how many boxes can she fill completely?

A. 15

C. 18

B. 17

D. 16 boxes

4) A pattern starts at 2 and follows the rule add 5. What is the fifth term?

5) Noah bought  $\frac{8}{10}$  pound of strawberries and  $\frac{15}{100}$  pound of blueberries. How many pounds of berries did he buy in total?

A.  $\frac{23}{110}$  pound

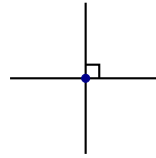
C.  $\frac{95}{100}$  pound

B.  $\frac{8}{15}$  pound

D.  $\frac{23}{100}$  pound



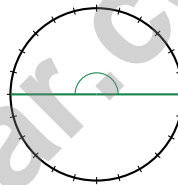
6) Two perpendicular lines intersect. How many right angles are formed?



- A. 1 right angle                       C. 3 right angles  
 B. 2 right angles                       D. 4 right angles

7) Mia weighs 42 pounds. Her dog weighs 18 pounds. How much more does Mia weigh than her dog?

- A. 24 pounds                       C. 18 pounds  
 B. 60 pounds                       D. 42 pounds



8)

A straight angle is shown with degree tick marks. How many one-degree angles form a straight angle?

- A. 90 one-degree angles                       C. 270 one-degree angles  
 B. 180 one-degree angles                       D. 360 one-degree angles

9) How many  $\frac{1}{3}$ 's equal  $\frac{2}{3}$ ?

- A. 1     C. 3  
 B. 2     D. 6



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& 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 B is correct.** (4.NF.B.3) Noah ate  $\frac{2}{6}$  and his sister ate  $\frac{3}{6}$ . Together:  $2 + 3 = 5$  sixths, so  $\frac{5}{6}$  of the cookies were eaten.
- The correct answer is 0.70.** (4.NF.C.5) Use the equivalence: 7 tenths = 70 hundredths (because each tenth contains 10 hundredths). So  $0.7 = 0.70$ . The trailing zero doesn't change the value—it just shows the same amount in hundredths. ✓
- Choice B is correct.** (4.MD.C.5) When we say an angle measures  $30^\circ$ , that means it is made of **30** one-degree angles.
- Choice C is correct.** (4.MD.C.5) A right angle has a perfect square corner, like the corner of a piece of paper.
- Choice A is correct.** (4.NF.A.1) Max ate  $\frac{2}{6}$  of his pizza. Cole ate  $\frac{1}{3}$  of his pizza. Simplify:  $\frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$ . They ate the same amount!
- Choice C is correct.** (4.MD.A.3) Area = length  $\times$  width =  $10 \times 3 = 30$  sq in.
- Choice D is correct.** (4.NBT.A.2) Thousands and hundreds match. Compare the tens place:  $2 < 5$ , so  $3,425 < 3,450$ . ✓
- Choice D is correct.** (4.NF.B.3) Add the wholes:  $1 + 2 = 3$ . Add the fractions:  $\frac{5}{6} + \frac{1}{6} = \frac{6}{6} = 1$ . Combine:  $3 + 1 = 4$ .
- 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.
- Choice D 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 4 to 5, giving us **31,500**. ✓
- Choice C is correct.** (4.OA.B.4) Divisibility rule for 3: *add the digits*; if that sum divides by 3, the number does too. For 48:  $4 + 8 = 12$ , and  $12 \div 3 = 4$ . So  $48 \div 3 = 16$ . The others fail:  $25 \rightarrow 2 + 5 = 7$ ,  $34 \rightarrow 7$ ,  $55 \rightarrow 10$  (none divisible by 3).
- Choice B is correct.** (4.MD.C.5) The diagram shows two right angles: angle  $a$  is  $90^\circ$  (right to up), and angle  $b$  is  $90^\circ$  (up to left). Together:  $90^\circ + 90^\circ = 180^\circ$ .
- The correct answer is 19,567.** (4.NBT.B.4) The library received more books, so we add.  $15,000 + 4,567 = 19,567$  books.
- Choice B is correct.** (4.NF.B.4) Carter runs  $\frac{3}{8}$  mile each morning for 3 mornings. We multiply:  $3 \times \frac{3}{8} = \frac{9}{8}$  miles.
- Choice D is correct.** (4.OA.A.1) Read  $12 = 3 \times 4$  in words: "12 equals 3 groups of 4." That's the same as saying "12 is 3 times as many as 4." The other choices use *more*, *plus*, or *less*—those describe adding or subtracting, not multiplying.
- The correct answer is A, C.** (4.G.A.2) For statements about right triangles: Statement A is correct because a right triangle has exactly one angle measuring 90 degrees. Statement C is also correct because besides the 90-degree angle, the other two angles must be acute (less than 90 degrees). Statement B is false (right triangles do not have all angles less than 90). Statement D is false (right triangles have one 90-degree angle, not angles greater than 90). Statement E is false (triangles have three angles total, but only one is 90 degrees in a right triangle). The answer is A and C.
- Choice A is correct.** (4.NF.B.3) The garden bed is divided into sections shown in the picture. Step 1: Add the vegetables and flowers:  $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$ . Step 2: The rest is herbs:  $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}$ .
- Choice B is correct.** (4.NF.C.5) First, rewrite  $\frac{5}{10}$  using hundredths:  $\frac{5}{10} = \frac{50}{100}$ . Then add:  $\frac{50}{100} + \frac{25}{100} = \frac{75}{100}$ .
- Choice C is correct.** (4.NBT.B.5) Check each product: A: 280, B: 400, C:  $18 \times 20 = 360$ , D: 480. Only 360 is between 300 and 400.
- 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 A is correct.** (4.MD.C.6) The baseline of the angle starts at  $0^\circ$  on the right. Follow the second ray until it crosses the degree scale—it lines up perfectly with the 45-degree mark. The answer is **45** degrees.
- Choice B is correct.** (4.G.A.1) The vertex is simply the corner point where the two rays come together to form the angle—it's like the tip of a pencil or the corner of a piece of paper.
- Choice A is correct.** (4.NF.B.3)  $\frac{7}{8}$  means "seven eighths," so we need seven  $\frac{1}{8}$  pieces:  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ . ✓
- Choice C is correct.** (4.NF.B.4) Each jump is  $\frac{1}{3}$ . Making 6 jumps is the same as  $6 \times \frac{1}{3} = \frac{6}{3}$ . Since 3 thirds make one whole,  $\frac{6}{3}$  equals **2** wholes.



## Hi, Hero!

◇ Once there was a Grade 4 student who took 8 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

### Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

**Storyteller tip:** on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Storyteller

# 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.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, 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 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! ★



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