

# 4

# Hawaii

## Smarter Balanced

### GRADE 4

# MATH

## PRACTICE TESTS



5 FULL-LENGTH  
PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key



STANDARDS-ALIGNED  
REVIEW



MIXED PRACTICE  
QUESTIONS



ANSWER KEY  
INCLUDED



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$

$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



# 4 Hawaii Smarter Balanced Grade 4 Math Practice Tests

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



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Hawaii Math Explorer!

Four steady rounds on the Aloha State math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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) An angle measures 145 degrees. How many one-degree angles make up this angle?
- A. 72.5 one-degree angles                       C. 290 one-degree angles  
 B. 145 one-degree angles                       D. 14.5 one-degree angles
- 2) A kitchen has 240 ounces of rice to divide equally among 4 storage bins. How many ounces of rice go in each bin?
- A. 60 ounces     C. 120 ounces  
 B. 80 ounces     D. 240 ounces
- 3) Which fraction equals thirty-five hundredths?
- A.  $\frac{35}{10}$      C.  $\frac{35}{100}$   
 B.  $\frac{3}{5}$      D.  $\frac{53}{100}$
- 4) In the number 4,567, what is the value of the digit 4?
- A. 4     C. 400  
 B. 40     D. 4,000
- 5) What is  $2,800 \div 7$ ?
- A. 400     C. 410  
 B. 390     D. 420
- 6) A garden plot needs  $\frac{6}{4}$  bags of soil. The gardener already has  $\frac{2}{4}$  bags. How many more bags are needed?
- A.  $\frac{4}{4}$      C.  $\frac{2}{4}$   
 B.  $\frac{8}{4}$      D.  $\frac{1}{4}$



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7) Is 27 prime or composite?

- A. Prime                       C. Neither  
 B. Not defined               D. Composite

8) A school cafeteria prepares 24 trays of food. Each tray serves 12 people. How many people can be served?

9) A rectangular poster is 12 inches long and 8 inches wide. How much paper does it cover (what is its area)?

10) Which decimal is greatest?

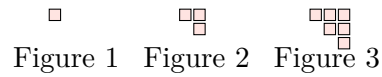
- A. 0.48                       C. 0.44  
 B. 0.84                       D. 0.41

11) Solve:  $\frac{6}{12} + \frac{7}{12} = ?$

- A.  $\frac{13}{12}$  or  $1\frac{1}{12}$                C.  $\frac{1}{12}$   
 B.  $\frac{13}{24}$                        D.  $\frac{6}{12}$



12) A pattern shows figures made of small squares arranged in columns:



How many unit squares are in Figure 6?

- A. 18                                       C. 24  
 B. 28                                       D. 21
- 13) Which equation does NOT show a multiplicative comparison?
- A.  $18 = 3 \times 6$                                        C.  $20 = 4 \times 5$   
 B.  $18 = 12 + 6$                                        D.  $35 = 5 \times 7$
- 14) A printer prints 250 pages per hour. How many pages does it print in 3 hours? Then 105 pages are removed. How many are left?
- A. 750                                       C. 105  
 B. 855                                       D. 645 pages
- 15) What is  $1\frac{5}{8} + 3\frac{3}{8}$ ?
- A.  $4\frac{7}{8}$                                        C.  $4\frac{9}{8}$   
 B. 5                                       D.  $5\frac{1}{8}$
- 16) An angle of  $156^\circ$  is split into two smaller angles. If one angle is  $89^\circ$ , what is the measure of the other angle?



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4) Which shape does NOT have any pairs of parallel sides?

- A. Rectangle                       C. Triangle  
 B. Parallelogram                   D. Trapezoid

5) Complete the table using the rule “multiply by 2 then add 1”:

Input	1	2	3	4
Output	3	5	7	?

- A. 8                                       C. 11  
 B. 13                                     D. 9

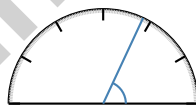
6) Solve:  $\frac{1}{6} + \frac{4}{6} + \frac{1}{6} = ?$



$$\frac{1}{6} + \frac{4}{6} + \frac{1}{6} = ?$$

- A.  $\frac{6}{18}$                                        C.  $\frac{4}{6}$   
 B.  $\frac{6}{6}$  or 1                                   D.  $\frac{3}{6}$

7)



What is the best estimate of this angle?

- A. 60 degrees                               C. 75 degrees  
 B. 70 degrees                               D. 65 degrees

1) Use this place-value chart:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
4	1	8	5	2	3

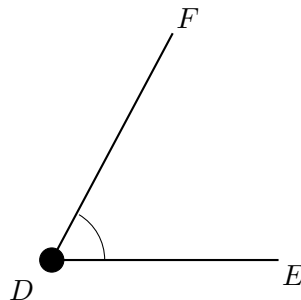
What is the standard numeral?

- A. 418,253                       C. 418,352  
 B. 481,523                       D. 418,523

2) Which does NOT correctly decompose  $\frac{8}{10}$ ?

- A.  $\frac{4}{10} + \frac{4}{10}$                        C.  $\frac{2}{10} + \frac{5}{10}$   
 B.  $\frac{3}{10} + \frac{5}{10}$                        D.  $\frac{1}{10} + \frac{7}{10}$

3) Write 0.7 as an equivalent decimal in hundredths.



4)

Which name correctly identifies the angle with vertex at  $D$ ?

- A.  $\angle DEF$                        C.  $\angle EFD$   
 B.  $\angle FED$                        D.  $\angle EDF$



- 5) Compare the volumes. Which is smaller: 3 liters or 2,500 milliliters?
- A. 3 liters  C. They are the same size  
 B. 2,500 milliliters  D. Cannot be determined
- 6) Two angles are measured: one is 55 degrees and one is 165 degrees. Which statement is true?
- A. Both angles are acute  C. One is acute and one is obtuse  
 B. Both angles are obtuse  D. Both angles are right angles
- 7) A pet store has 14 hamsters. Another pet store has 3 times as many hamsters. How many hamsters does the other store have?
- A. 17  C. 56  
 B. 30  D. 42
- 8) Sam has  $1\frac{2}{4}$  yards of red ribbon and  $2\frac{1}{4}$  yards of blue ribbon. How many yards of ribbon does Sam have in total?
- A.  $2\frac{3}{4}$  yards  C.  $3\frac{3}{4}$  yards  
 B.  $3\frac{2}{4}$  yards  D.  $4\frac{1}{4}$  yards
- 9) A right angle measures  $90^\circ$ . If it is divided into two angles measuring  $35^\circ$  and another angle, what is the measure of the unknown angle?
- A.  $45^\circ$   C.  $125^\circ$   
 B.  $55^\circ$   D.  $35^\circ$



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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)** An angle that measures  $145^\circ$  is made of **145** one-degree angles.
- Choice A is correct.** **(4.MD.A.2)** There are 240 ounces of rice to divide equally into 4 bins. Divide:  $240 \div 4 = 60$  ounces. Each bin gets **60** ounces.
- Choice C is correct.** **(4.NF.C.5)** The phrase “thirty-five hundredths” means  $\frac{35}{100}$ , which you write as a decimal: 0.35.
- Choice D is correct.** **(4.NBT.A.1)** In 4,567, read the places from right: ones 7, tens 6, hundreds 5, thousands 4. The digit 4 is in the thousands place, so its value is  $4 \times 1,000 = 4,000$ . ✓
- Choice A is correct.** **(4.NBT.B.6)** Notice:  $28 \div 7 = 4$  and  $0 \div 7 = 0$ . So the quotient is **400**.
- Choice A is correct.** **(4.NF.B.3)** The gardener needs soil but already has some. Find how much more is needed by subtracting what he has from what’s needed:  $\frac{6}{4} - \frac{2}{4} = \frac{4}{4}$  more bags of soil are needed.
- Choice D is correct.** **(4.OA.B.4)** Look for any factor besides 1 and 27. Since  $27 = 3 \times 9$ , both 3 and 9 are also factors. With factors 1, 3, 9, 27 (more than two), 27 is **composite**.
- The correct answer is 288.** **(4.NBT.B.5)** This is a word problem asking for the total. Calculate:  $24 \times 12 = 24 \times (10 + 2) = 240 + 48 = 288$  people.
- The correct answer is 96 sq in.** **(4.MD.A.3)** Poster area =  $12 \times 8 = 96$  sq in.
- Choice B is correct.** **(4.NF.C.5)** Look at the tenths place: 0.84 has 8 tenths while the others have 4 tenths. Since  $8 > 4$ , 0.84 is the largest.
- Choice A is correct.** **(4.NF.B.3)** Add the numerators:  $6 + 7 = 13$ . We get  $\frac{13}{12}$ , which is more than a whole, so it equals  $1\frac{1}{12}$ .
- Choice D is correct.** **(4.OA.B.4)** Columns grow: Figure 1 = 1, Figure 2 =  $1 + 2 = 3$ , Figure 3 =  $1 + 2 + 3 = 6$ . Figure 6 =  $1 + 2 + 3 + 4 + 5 + 6 = 21$  unit squares.
- Choice B is correct.** **(4.OA.A.1)** Multiplicative comparisons use the symbol  $\times$  (or words like “times as many”). Choices A, C, and D all use  $\times$ . Choice B uses  $+$ , which is an *additive* comparison—not multiplicative.
- Choice D is correct.** **(4.OA.A.3)** Two steps! Step 1: find the total pages printed:  $250 \times 3 = 750$  pages. Step 2: take away the removed pages:  $750 - 105 = 645$  pages left.
- Choice B is correct.** **(4.NF.B.3)** Add the wholes:  $1 + 3 = 4$ . Add the fractions:  $\frac{5}{8} + \frac{3}{8} = \frac{8}{8} = 1$ . Combine:  $4 + 1 = 5$ .
- The correct answer is 67.** **(4.MD.C.7)** The angle is split into two parts. Subtract to find the missing angle:  $156^\circ - 89^\circ = 67^\circ$ .
- The correct answer is B, D.** **(4.NBT.A.2)** B and D are correct: B’s expanded form equals the number, and D correctly spells out the word form. A, C, and E have place-value or comparison errors ✓
- Choice A is correct.** **(4.NF.A.1)** Same denominator, so compare numerators. Since  $6 < 9$ , we have  $\frac{6}{12} < \frac{9}{12}$ .
- Choice A is correct.** **(4.NF.B.4)** Ava drinks  $\frac{1}{4}$  cup 4 times, so we calculate  $4 \times \frac{1}{4} = \frac{4 \times 1}{4} = \frac{4}{4} = 1$  cup. The answer is 1 cup.
- Choice A is correct.** **(4.NF.B.4)** The pie is cut into 4 equal pieces. Each piece is  $\frac{1}{4}$  of the pie. Sam ate 3 pieces, so he ate  $3 \times \frac{1}{4} = \frac{3}{4}$  of the pie.
- Choice A is correct.** **(4.NBT.B.4)** Step 1: Add Mon-Wed:  $2,000 + 4,000 + 3,000 = 9,000$ . Step 2: Add Thu-Fri:  $2,000 + 1,000 = 3,000$ . Step 3: Subtract:  $9,000 - 3,000 = 6,000$ .
- Choice B is correct.** **(4.MD.A.1)** Since 1 kilogram = 1,000 grams, multiply:  $12 \times 1,000 = 12,000$  g. The answer is **12,000** g.
- Choice A is correct.** **(4.NF.A.1)** Multiply both the numerator and denominator by 2:  $\frac{3}{4} = \frac{3 \times 2}{4 \times 2} = \frac{6}{8}$ .
- Choice B is correct.** **(4.NF.C.5)** First, convert  $\frac{2}{10}$  to hundredths:  $\frac{2}{10} = \frac{20}{100}$ . Now add the fractions:  $\frac{20}{100} + \frac{30}{100} = \frac{50}{100}$ .
- Choice C is correct.** **(4.MD.C.5)** Two-thirds of the circle is  $\frac{2}{3} \times 360^\circ = 240^\circ$ .
- Choice A is correct.** **(4.MD.C.6)** Ming’s angle at  $100^\circ$  is just past a right angle (which is  $90^\circ$ ). Any angle bigger than  $90^\circ$  but smaller than  $180^\circ$  is obtuse, so this is definitely obtuse. The answer is obtuse angle.
- Choice B is correct.** **(4.G.A.3)** A non-square rectangle is longer in one direction, so it balances in two ways: a vertical fold through the middle and a horizontal fold through the middle. The answer is **2** lines of symmetry.



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**A Note From Your Math Friend**

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**Hi, Math Star!**

◇ Wow! You finished 4 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 4 tests, you learned that trying is the most important thing. ★

**Look What You Did!**

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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 Friend

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 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



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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.



### 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
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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