

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

Hawaii

Smarter Balanced

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 Hawaii Smarter Balanced Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine 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!

Nine steady rounds on the Aloha State math route

This book gives you nine 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?

Nine tests, 270 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 7–9	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

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1) Iris has 9 game cards worth 34 points each. What is the total value of all the cards?

- A. 243 points C. 280 points
 B. 380 points D. 306 points

2) Add: $19,876 + 20,234 = ?$

- A. 39,110 C. 39,210
 B. 40,210 D. 40,110

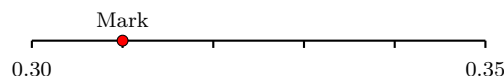
3) A party favor bag holds $\frac{1}{6}$ pound of candy. If you prepare 8 bags, how much candy is used in total?

- A. $\frac{1}{48}$ pound C. $\frac{8}{48}$ pound
 B. $\frac{8}{6}$ pounds (or $1\frac{1}{3}$ pounds) D. $\frac{6}{8}$ pound

4) A rectangle has an area of 72 square inches. The length is 9 inches. What is the width?



5) Number line with decimals between two tenths marked.



What decimal is marked?

- A. 0.31 C. 0.3
 B. 0.13 D. 0.41



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6) Grace drives 12 kilometers from home to school. Then she drives from school to the library, a distance that is 8 kilometers farther than the home-to-school trip. How many kilometers does she drive in total?

- A. 4 km
- B. 20 km
- C. 32 km
- D. 12 km

7) Write 52,047 in expanded form.

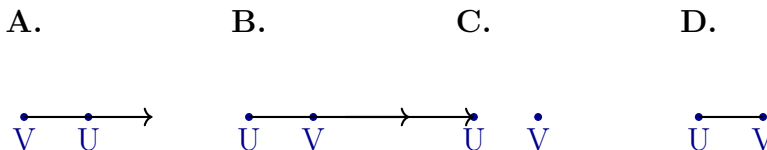
- A. $50,000 + 2,000 + 400 + 7$
- B. $50,000 + 2,000 + 4 + 7$
- C. $50,000 + 20,000 + 40 + 7$
- D. $50,000 + 2,000 + 40 + 7$

8) A store has 200 books. They receive 35 more books. Then they sell 78 books. How many books do they have left?

9) A line plot shows leaf lengths in halves of an inch: $\frac{1}{2}$, $\frac{1}{2}$, 1, $\frac{1}{2}$, 1, 1. How many leaves measured 1 inch?

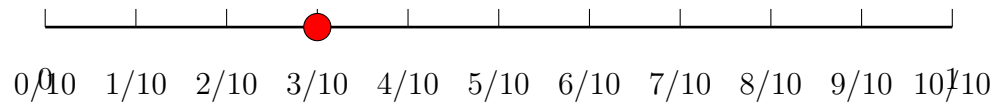
- A. 1
- B. 2
- C. 3
- D. 4

10) Which diagram correctly shows Ray UV ?



- A. Diagram A
- B. Diagram B
- C. Diagram C
- D. Diagram D

11) Look at the number line below.



What fraction is marked on the number line?

A. $\frac{3}{100}$

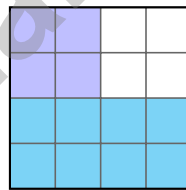
C. $\frac{3}{10}$

B. $\frac{13}{100}$

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

12) Ava eats 3 of 8 equal pizza slices. What fraction of the pizza did she eat?

13) A 4×4 grid has 16 equal squares. The shaded part is decomposed into two regions:



Which shows the decomposition?

A. $\frac{4}{16} + \frac{8}{16}$

C. $\frac{12}{16} + \frac{4}{16}$

B. $\frac{6}{16} + \frac{10}{16}$

D. $\frac{8}{16} + \frac{8}{16}$



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1) What is $3 \times \frac{1}{4}$?

A. $\frac{1}{12}$

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

C. $\frac{3}{4}$

D. $\frac{4}{3}$

2) A recipe requires $1\frac{1}{3}$ cups of milk. The baker already has $\frac{2}{3}$ cup. How much more milk is needed?

A. $\frac{2}{3}$

B. $\frac{1}{3}$

C. $1\frac{1}{3}$

D. $2\frac{1}{3}$

3) Mia had 25,000 dollars. She spent 12,345 dollars. How much money does she have left?

A. 12,655 dollars

B. 12,755 dollars

C. 13,655 dollars

D. 12,565 dollars

4) 3 times

8

?

Ethan has 8 trading cards. Lily has 3 times as many trading cards as Ethan. How many does Lily have?

A. 11

B. 16

C. 32

D. 24



5) An angle is formed wherever two rays share a common:

- A. line C. segment
 B. endpoint D. circle

6) A clock hand rotates from 12 o'clock to 3 o'clock (a 90° rotation), then continues to rotate an additional 45° . What is the total angle of rotation?

7) A park has 5,040 feet of fence to divide equally into 9 sections. How many feet of fence are in each section?

8) A running path is 4 kilometers long. How many meters is this?

- A. 40 C. 4,000
 B. 400 D. 40,000

9) In the number 2,222, which 2 has the greatest value?

- A. The 2 in the ones place C. The 2 in the hundreds place
 B. The 2 in the tens place D. The 2 in the thousands place



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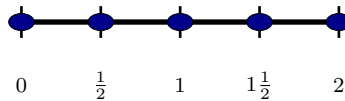
6) A class recorded toy block heights in fourths of an inch: $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{1}{4}$. When plotted, what is the mode (most common measurement)?

A. $\frac{1}{4}$ in

C. $\frac{3}{4}$ in

B. $\frac{2}{4}$ in

D. 1 in



Number line (0 to 2)

7)

On a number line, you mark dots at 0, $\frac{1}{2}$, 1, $1\frac{1}{2}$, and 2. What does the pattern show about $4 \times \frac{1}{2}$?

A. $4 \times \frac{1}{2} = 8$

C. $4 \times \frac{1}{2} = 4$

B. $4 \times \frac{1}{2} = 2$

D. $4 \times \frac{1}{2} = 6$

8) Lily had 3 sticker sheets. Her grandmother gave her 4 times as many sticker sheets as Lily already had. How many sticker sheets does Lily have in all?

A. 7

C. 16

B. 12

D. 15

9) 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)

D. Cannot tell without more information

B. Lin's apple (0.27 kg)

C. Both apples weigh the same



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.B.5) Multiply by tens and ones: $9 \times (30 + 4) = 270 + 36 = 306$ points.
- Choice D is correct.** (4.NBT.B.4) Add from right to left: ones $6 + 4 = 10$ (carry 1), tens $7 + 3 + 1 = 11$ (carry 1), hundreds $8 + 2 + 1 = 11$ (carry 1), thousands $9 + 0 + 1 = 10$ (carry 1). The sum is **40,110**.
- Choice B is correct.** (4.NF.B.4) Eight party favor bags, each with $\frac{1}{6}$ pound of candy, use $8 \times \frac{1}{6} = \frac{8}{6}$, which is $1\frac{1}{3}$ pounds.
- The correct answer is 8 in.** (4.MD.A.3) From area formula: $72 = 9 \times w$. Divide: $w = 72 \div 9 = 8$ in.
- Choice A is correct.** (4.NF.C.5) The number line from 0.30 to 0.35 divides into 5 equal steps. The mark is one step from 0.30, so it lands on 0.31.
- Choice C is correct.** (4.MD.A.2) Step 1: The second trip is 8 km farther than 12 km, so $12 + 8 = 20$ km. Step 2: Total distance is $12 + 20 = 32$ km. Grace drives **32** kilometers.
- Choice D is correct.** (4.NBT.A.2) Ten-thousands: $5 \rightarrow 50,000$; thousands: $2 \rightarrow 2,000$; tens: $4 \rightarrow 40$; ones: $7 \rightarrow 7 \checkmark$
- The correct answer is 157.** (4.OA.A.3) Two steps! Step 1: add the new books: $200 + 35 = 235$. Step 2: take away the books sold: $235 - 78 = 157$ books left.
- Choice C is correct.** (4.MD.B.4) Count how many leaves measured 1 inch (which is the same as $\frac{2}{2}$ inch). We find **3** leaves with this length.
- Choice B is correct.** (4.G.A.1) The first letter of a ray name is always the starting point. Ray UV begins at U and shoots through V forever. Diagram B shows this with the arrow starting at U .
- Choice C is correct.** (4.NF.C.5) The dot is at the third mark out of 10 equal marks, so it shows $\frac{3}{10}$.
- The correct answer is $\frac{3}{8}$.** (4.NF.B.3) Ava ate 3 slices out of 8, which is $\frac{3}{8}$. Breaking this into unit fractions: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$.
- Choice A is correct.** (4.NF.B.3) Count the shaded squares. Light: 4 squares out of 16. Dark: 8 squares. Together: $4 + 8 = 12$, so $\frac{4}{16} + \frac{8}{16} = \frac{12}{16} \checkmark$.
- The correct answer is B, C.** (4.OA.B.4) Starting with a positive whole number: subtracting 5, subtracting 10, or dividing by 4 makes it smaller. Adding 3 or multiplying by 2 makes it larger. Increasing rules: B and C. \checkmark
- Choice B is correct.** (4.NF.B.3) The flower bed has two types of flowers. Add the parts with like denominators: $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$ of the flower bed was planted.
- Choice C is correct.** (4.MD.C.5) Each hour mark on a clock is 30° apart, so $120^\circ \div 30^\circ = 4$ marks.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest ten. Look at the ones digit: 7. Since $7 \geq 5$, we round UP! The tens digit goes from 0 to 1, giving us **4,610**. \checkmark
- Choice B is correct.** (4.MD.A.1) 1 kilometer = 1,000 meters. So $4 \text{ km} = 4 \times 1,000 = 4,000$ m.
- Choice A is correct.** (4.NF.B.4) For $3 \times \frac{1}{4}$, we need 3 copies of $\frac{1}{4}$, which equals $\frac{3}{4}$. Picture A shows one whole divided into 4 parts with 3 parts shaded. This is Picture A.
- Choice C is correct.** (4.NF.B.3) Add the wholes: $3 + 1 = 4$. Add the fractions: $\frac{2}{6} + \frac{4}{6} = \frac{6}{6} = 1$. Combine: $4 + 1 = 5$ meters.
- Choice C is correct.** (4.NF.A.1) Check each option: $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$. All equivalent! But $\frac{2}{5}$ is different because when you cross-multiply, $2 \times 3 = 6$ but $5 \times 1 = 5$.
- 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!)
- Choice A is correct.** (4.NBT.B.6) Long division: $56 \div 8 = 7$, bring down the 7 to get $7 \div 8 = 0$ r7. The quotient is **70** with remainder 7. *Quick check:* $70 \times 8 + 7 = 560 + 7 = 567$. \checkmark
- Choice B is correct.** (4.NF.B.4) Six fourths: $6 \times \frac{1}{4} = \frac{6}{4}$. Converting to mixed number: $\frac{6}{4} = 1\frac{2}{4}$.
- Choice C is correct.** (4.MD.C.7) These adjacent angles are supplementary. Add them: $63^\circ + 117^\circ = 180^\circ$.
- Choice D is correct.** (4.OA.A.2) "2 times as many" means multiply by 2: $2 \times 100 = 200$ action figures.
- Choice B is correct.** (4.G.A.2) Tick marks indicate which sides are equal. The two sides marked with the same tick marks are equal in length. The answer is **B**.



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Hi, Hero!

◇ Once there was a Grade 4 student who took 9 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.

Jay Daie

Your Math Storyteller

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

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SUCCESS FOR LIFE.**

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