

6 Hawaii

Smarter Balanced

GRADE 4

MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 Hawaii Smarter Balanced Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six 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!

Six steady rounds on the Aloha State math route

This book gives you six 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?

Six tests, 180 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 4–6	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.

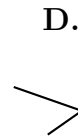
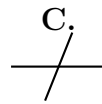
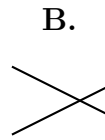
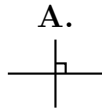


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& answers

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1) Which diagram shows two perpendicular lines?



A. Diagram A

B. Diagram B

C. Diagram C

D. Diagram D

2) Is 23 prime or composite?

A. It depends

B. Composite

C. Neither

D. Prime

3) A rectangle has an area of 56 square centimeters. The width is 7 centimeters. What is the length?

A. 6 cm

B. 7 cm

C. 8 cm

D. 9 cm

4) $\frac{3}{4}$ is equivalent to $\frac{6}{?}$. What is the missing denominator?

A. 6

B. 12

C. 10

D. 8

5) Add: $\frac{3}{10} + \frac{5}{100}$.

A. $\frac{8}{100}$

B. $\frac{8}{110}$

C. $\frac{35}{100}$

D. $\frac{80}{100}$



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11) What is 8×425 ?

A. 3200

C. 3300

B. 3500

D. 3400

12) Estimate first, then find the exact answer: $48,765 + 31,234 = ?$

A. 79,999

C. 79,899

B. 80,000

D. 80,099

13) How many copies of $\frac{1}{10}$ are in $\frac{9}{10}$?

14) A single marble weighs $\frac{2}{6}$ ounce. What is the weight of 3 marbles?

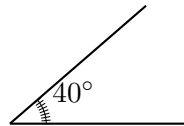
A. $\frac{2}{18}$ ounce

C. $\frac{3}{6}$ ounce (or $\frac{1}{2}$ ounce)

B. $\frac{6}{6}$ ounce (or 1 ounce)

D. $\frac{5}{6}$ ounce

15)



An angle turns through 40 one-degree angles. What is the measure of this angle?

A. 40°

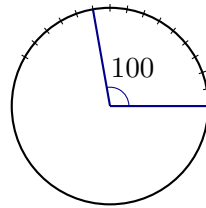
C. 39°

B. 41°

D. 80°



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1)

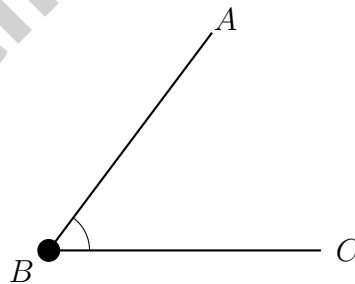
Ava drew an angle that measures 100 degrees. How many one-degree angles does it contain?

- A. 50 one-degree angles C. 200 one-degree angles
 B. 100 one-degree angles D. 10 one-degree angles

2) A fraction bar is divided into 6 equal parts with 4 parts shaded. Express this as a multiplication of a unit fraction.

- A. $4 \times \frac{1}{6}$ C. $2 \times \frac{1}{6}$
 B. $6 \times \frac{1}{4}$ D. $6 \times \frac{1}{6}$

3) The angle below is named $\angle ABC$. Where is point B ?

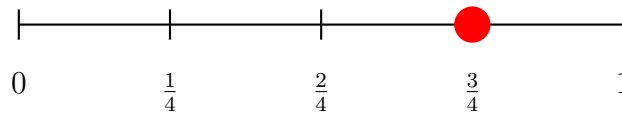


- A. At point A C. At point C
 B. At the vertex D. In the exterior



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4) Which fraction is shown on the number line?



- A. $\frac{2}{4}$
 C. $\frac{5}{8}$
 B. $\frac{3}{4}$
 D. $\frac{4}{5}$

5) Which number rounds to 9,000 when rounded to the nearest thousand?

- A. 8,499
 C. 9,450
 B. 8,401
 D. 9,600

6) A carton of milk contains 2 pints. How many fluid ounces is this?

- A. 16
 C. 64
 B. 32
 D. 128

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) A pattern of stars is shown:



Figure 1



Figure 2



Figure 3

How many stars are in Figure 4?

- A. 8
 C. 10
 B. 9
 D. 12



1) A bookstore receives 7 shipments of books. Each shipment has 256 books. How many books are received?

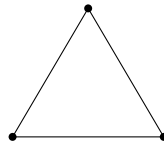
A. 1792

C. 1589

B. 1648

D. 1856

2) Look at the triangle. Which type is it?



A. Right triangle

C. Acute triangle

B. Obtuse triangle

D. Right obtuse triangle

3) A clock shows 3 o'clock. The hour hand and minute hand form an angle. What type of angle is it?

A. Acute

C. Obtuse

B. Right

D. Straight

4) A quarter turn around a circle measures how many degrees?

A. 45°

C. 180°

B. 90°

D. 270°

5) If $\frac{6}{8} = \frac{2}{8} + \underline{\hspace{1cm}}$, what fraction completes the decomposition?



6) Which expression is NOT equal to 2?

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

B. $6 \times \frac{1}{3}$

C. $3 \times \frac{2}{3}$

D. $5 \times \frac{1}{2}$

7) Mia buys 4 ribbons, each one-sixth of a yard long. How long are all the ribbons together?

A. $\frac{4}{6}$ yard

B. 4 yards

C. $\frac{1}{24}$ yard

D. $\frac{6}{4}$ yard

8) Subtract: $4\frac{2}{6} - 1\frac{5}{6}$.

9) A swimming pool cover is rectangular and measures 20 meters long and 8 meters wide. How much space does the cover take up?

A. 28 sq m

B. 56 sq m

C. 160 sq m

D. 180 sq m

10) Give one decimal greater than 0.5 and less than 0.8.



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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 A is correct.** **(4.G.A.1)** Perpendicular lines cross at a right angle — exactly 90° — and you can spot them by the tiny square symbol at the corner. Diagram A shows this perfect corner square.
- 2) **Choice D is correct.** **(4.OA.B.4)** Test the small primes: 23 is odd; digit sum $2 + 3 = 5$ (not $\div 3$); doesn't end in 0 or 5; $7 \times 3 = 21$, $7 \times 4 = 28$, no 7. So 23 has only factors 1 and itself—**prime**.
- 3) **Choice C is correct.** **(4.MD.A.3)** From area $= \ell \times w$: $56 = \ell \times 7$. Divide: $\ell = 56 \div 7 = 8$ cm.
- 4) **Choice D is correct.** **(4.NF.A.1)** The numerator changes from 3 to 6—that's multiply by 2. To keep fractions equivalent, multiply the denominator by 2 also: $4 \times 2 = 8$.
- 5) **Choice C is correct.** **(4.NF.C.5)** First, convert $\frac{3}{10}$ to hundredths: $\frac{3}{10} = \frac{30}{100}$. Now both fractions have the same denominator, so we add: $\frac{30}{100} + \frac{5}{100} = \frac{35}{100}$.
- 6) **The correct answer is 200.** **(4.MD.A.1)** Since 1 meter = 100 centimeters, multiply: $2 \times 100 = 200$ cm.
- 7) **Choice B is correct.** **(4.NF.B.3)** Noah ate 7 pieces out of 10 equal pieces, so the fraction is $\frac{7}{10}$. As unit fractions: $\frac{7}{10} = \underbrace{\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}}_{7 \text{ copies}}$.
- 8) **Choice A is correct.** **(4.NF.B.3)** A child and his sister share cookies. Add the amounts: $1\frac{3}{4} + \frac{2}{4} = 2\frac{1}{4}$ cookies total they ate together.
- 9) **Choice D is correct.** **(4.OA.A.1)** Step 1: find Owen's soldiers: $5 \times 7 = 35$. Step 2: "how many *more*" is a subtraction: $35 - 5 = 30$. Owen has **30** more soldiers than Ethan.
- 10) **Choice B is correct.** **(4.NF.B.3)** Add the numerators: $8 + 3 = 11$. With the same denominator, we get $\frac{11}{12}$.
- 11) **Choice D is correct.** **(4.NBT.B.5)** Break 425 into parts: $8 \times (400 + 20 + 5) = 3200 + 160 + 40 = \mathbf{3400}$.
- 12) **Choice A is correct.** **(4.NBT.B.4)** Estimate: $49,000 + 31,000 \approx 80,000$. Then add carefully: $48,765 + 31,234 = \mathbf{79,999}$.
- 13) **The correct answer is 9.** **(4.NF.B.4)** The numerator 9 tells us how many unit fractions. Since the unit fraction is $\frac{1}{10}$, we have $9 \times \frac{1}{10} = \frac{9}{10}$.
- 14) **Choice B is correct.** **(4.NF.B.4)** Three marbles, each weighing $\frac{2}{6}$ ounce, give us $3 \times \frac{2}{6} = \frac{6}{6} = 1$ ounce.
- 15) **Choice A is correct.** **(4.MD.C.5)** The measure of an angle equals the number of one-degree angles it turns through, so 40 one-degree angles equal 40° .
- 16) **The correct answer is A, E.** **(4.NBT.B.6)** Use long division: $27 \div 4 = 6$ r3, bring down the 8 to get $38 \div 4 = 9$ r2, bring down the 4 to get $24 \div 4 = 6$. The quotient is 696 with no remainder. Statement A is correct (quotient is 696) and statement E is correct (no remaining pieces). Statements B, C, and D are incorrect.
- 17) **Choice A is correct.** **(4.MD.C.7)** When smaller angles combine, they add to form the larger angle: $22^\circ + 58^\circ = \mathbf{80^\circ}$.
- 18) **Choice C is correct.** **(4.MD.C.5)** The angle spans from 0° (rightward) to 135° , measuring 135° .
- 19) **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.
- 20) **Choice A is correct.** **(4.NF.C.5)** The decimal 0.35 reads as "zero point thirty-five," which is named thirty-five hundredths.
- 21) **Choice C is correct.** **(4.MD.C.5)** An acute angle measures between 0 and 90 degrees and has a small opening.
- 22) **Choice D is correct.** **(4.OA.A.3)** Divide to pack: $73 \div 12 = 6$ remainder 1. So 6 complete boxes get filled and 1 cookie is left over. *Check:* $6 \times 12 = 72$, and $73 - 72 = 1$. ✓
- 23) **Choice B is correct.** **(4.NF.A.1)** Use $\frac{1}{2}$ as a benchmark: $\frac{3}{10} < \frac{1}{2}$ (only 3 out of 10 parts) but $\frac{4}{5} > \frac{1}{2}$ (four fifths is more than half). The benchmark separates them!
- 24) **Choice D is correct.** **(4.OA.A.2)** Look at the picture: Raj's group has 2 rows of 6 books—that's 2 times Mira's amount. Multiply: $2 \times 6 = 12$ books.
- 25) **The correct answer is 1.** **(4.NF.B.4)** Six sixths: $6 \times \frac{1}{6} = \frac{6}{6} = 1$.
- 26) **Choice A is correct.** **(4.NF.B.3)** One whole ($\frac{4}{4}$) as unit fractions means four pieces of $\frac{1}{4}$: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4} \checkmark$.



Hi, Hero!

◇ Once there was a Grade 4 student who took 6 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, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

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- ✓ Confidence Building

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SUCCESS FOR LIFE.**

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Develop logical thinking and effective solution strategies.



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Measure growth across multiple practice tests.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



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 & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
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- ✓ And More!



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Prepares Students for Test Day Success