

5

Hawaii

Smarter Balanced

Standards-Aligned Review with
Mixed Practice and Answer Key



5 Hawaii Smarter Balanced Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five 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.

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Welcome, Hawaii Math Explorer!

Five steady rounds on the Aloha State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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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9) Mia has a string of length $\frac{11}{12}$ yard. She cuts it into two pieces where one piece is $\frac{6}{12}$ yard. Which shows this decomposition?

A. $\frac{6}{12} + \frac{5}{12}$

B. $\frac{4}{12} + \frac{7}{12}$

C. $\frac{5}{12} + \frac{5}{12}$

D. $\frac{8}{12} + \frac{4}{12}$

10) Which number is a factor of 16?

A. 3

B. 6

C. 5

D. 4

11) Which fraction is NOT equal to $\frac{10}{100}$?

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

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

C. $\frac{20}{200}$

D. $\frac{5}{50}$

12) Where does 0.2 belong on this number line?



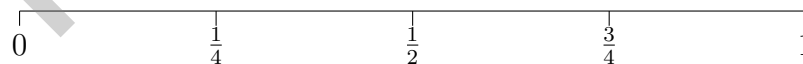
A. At position A

B. At position B

C. At position C

D. At position D

13) On a number line from 0 to 1, where does $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ land?



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

B. $\frac{1}{2}$

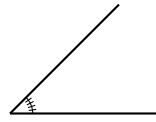
C. $\frac{3}{4}$

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



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1)



This angle shows tick marks at intervals. What is the measure of the angle?

- A. 45°
 C. 36 one-degree angles
 B. 9°
 D. 54 one-degree angles
- 2) A sack of apples weighs 32 pounds. How many ounces is this?
- A. 128
 C. 512
 B. 256
 D. 1,024
- 3) Diego simplified $\frac{4}{8}$ and wrote $\frac{2}{4}$. His teacher said he is correct because the fractions are equivalent. Is the teacher right?
- A. Yes, the teacher is right; $\frac{2}{4}$ is in simplest form
 C. Yes, and both simplify further to $\frac{1}{2}$
 B. No, the teacher is wrong; $\frac{4}{8} \neq \frac{2}{4}$
 D. No, Diego should have written $\frac{1}{4}$
- 4) Sam wrote “five hundred sixteen thousand, two hundred thirty” as 516,230. Is this correct?
- A. No; it should be 516,032
 C. No; it should be 516,320
 B. No; it should be 516,203
 D. Yes, it is correct
- 5) Jayden read $2\frac{1}{8}$ chapters in the morning, $3\frac{4}{8}$ chapters in the afternoon, and $1\frac{2}{8}$ chapters in the evening. How many chapters did he read in total?
- A. $6\frac{7}{8}$ chapters
 C. $6\frac{5}{8}$ chapters
 B. $6\frac{6}{8}$ chapters
 D. $7\frac{1}{8}$ chapters



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& answers

6) Ava measured the widths of leaves in fourths of an inch. Her data: $\frac{1}{4}, \frac{2}{4}, \frac{2}{4}, \frac{3}{4}, \frac{2}{4}$.
When plotted, how many X marks appear at $\frac{2}{4}$ inch?

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

7) A number line shows hops from 0 to $\frac{2}{3}$, then another hop to $\frac{4}{3}$. What operation does this show?



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



One whole (4 fourths)

8) The bar shows $\frac{2}{4}$ is shaded. If you have 3 such bars, how much is shaded in total?

- A. $\frac{6}{4}$ (or $1\frac{1}{2}$) C. $\frac{3}{4}$
 B. $\frac{2}{12}$ D. $\frac{5}{4}$

9) How many lines of symmetry does a square have?

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

1) Which set of unit fractions adds up to $\frac{5}{6}$?

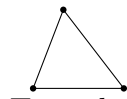
A. Five $\frac{1}{6}$'s

C. Five $\frac{1}{12}$'s

B. Six $\frac{1}{5}$'s

D. Two $\frac{1}{6}$'s

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



Triangle 1



Triangle 2

A. Triangle 1

C. Both triangles

B. Triangle 2

D. Neither triangle

3) A repeating pattern is: apple, banana, orange, apple, banana, orange. What is the 7th item?

A. Grape

C. Orange

B. Banana

D. Apple

4) Grace has some marbles. Her brother has 3 times as many marbles, and he has 24 marbles. How many marbles does Grace have?

A. 6

C. 21

B. 27

D. 8

5) This place-value chart represents a number. Write the expanded form:

Thousands	Hundreds	Tens	Ones
9	0	4	2

A. $9,000 + 400 + 2$

C. $9 + 0 + 4 + 2$

B. $90,000 + 400 + 20$

D. $9,000 + 40 + 2$



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 C is correct.** (4.MD.B.4) The smallest measurement is $\frac{2}{8}$ and the largest is $\frac{6}{8}$. The range is $\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$.
- 2) **Choice B is correct.** (4.NF.B.3) The baker adds fourths: $3 + 2 = 5$ fourths, giving $\frac{5}{4}$. Since that's more than a whole cup, it's $1\frac{1}{4}$ cups.
- 3) **Choice D is correct.** (4.OA.A.3) Two steps! Step 1: cars left after selling: $200 - 50 = 150$. Step 2: pack into boxes of 6: $150 \div 6 = 25$ complete boxes (no remainder).
- 4) **Choice D is correct.** (4.NBT.A.1) From the chart, the hundreds place (second column from the left) contains the digit 8. ✓
- 5) **Choice A is correct.** (4.NF.B.4) Since the bar is divided into 5 equal pieces, each piece is $\frac{1}{5}$. Ming ate 4 pieces, which equals $4 \times \frac{1}{5} = \frac{4}{5}$ of the bar.
- 6) **Choice B is correct.** (4.MD.C.5) A circle is 360° total, and each sector is 60° : $360^\circ \div 60^\circ = 6$ sectors.
- 7) **Choice D is correct.** (4.NBT.A.2) Step 1: $400,000 + 80,000 + 3,000 = 483,000$. Step 2: $483,000 + 200 + 1 = 483,201$ ✓
- 8) **Choice D is correct.** (4.NBT.B.5) The standard algorithm: multiply by ones ($37 \times 6 = 222$), then by tens ($37 \times 20 = 740$), then add ($222 + 740 = 962$). Choice D shows all three numbers.
- 9) **Choice A is correct.** (4.NF.B.3) Mia's string is $\frac{11}{12}$ long. One piece is $\frac{6}{12}$, so the other must be $\frac{11}{12} - \frac{6}{12} = \frac{5}{12}$. Check: $6 + 5 = 11$ ✓.
- 10) **Choice D is correct.** (4.OA.B.4) A factor divides evenly with no remainder. Check each choice: $16 \div 3 = 5$ r 1 (no); $16 \div 4 = 4$ (yes ✓); $16 \div 5 = 3$ r 1 (no); $16 \div 6 = 2$ r 4 (no). The full factor list is 1, 2, 4, 8, 16.
- 11) **Choice B is correct.** (4.NF.C.5) The fraction $\frac{10}{10}$ equals 1 (a whole), but $\frac{10}{100} = \frac{1}{10} = 0.1$. These are very different!
- 12) **Choice A is correct.** (4.NF.C.5) The number line counts by tenths: 0.2 is the very first mark to the right of 0, so it's at position A.
- 13) **Choice C is correct.** (4.NF.B.3) Start at 0 and make three jumps of $\frac{1}{4}$ each. After three jumps: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$.
- 14) **The correct answer is 3.** (4.G.A.2) Since all three angles are less than 90 degrees, all three angles are acute. The answer is 3.
- 15) **Choice A is correct.** (4.MD.C.5) The angle extends to the 40° mark, so it measures 40° .
- 16) **Choice D is correct.** (4.OA.A.2) The counter diagram shows 3 rows of 5 apples—that's "3 times as many." Multiply: $3 \times 5 = 15$ apples.
- 17) **Choice C is correct.** (4.NF.B.4) Seven jars, each holding $\frac{1}{4}$ liter of honey, give us $7 \times \frac{1}{4} = \frac{7}{4}$ liters.
- 18) **The correct answer is A, B.** (4.G.A.3) Choice A is correct because a regular pentagon has exactly 5 lines of symmetry. Choice B is correct because a regular hexagon has exactly 6. Choice C is wrong (equilateral triangles have 3, not 6). Choice D is wrong (regular octagons have 8, not 4). Choice E is wrong because different regular polygons have different numbers of symmetry lines!
- 19) **Choice C is correct.** (4.NF.A.1) Both bars show the same shaded length. They represent the same amount: $\frac{5}{10} = \frac{4}{8} = \frac{1}{2}$.
- 20) **Choice C is correct.** (4.G.A.1) An endpoint is where something stops or where it starts. Lines don't have endpoints, but rays start at one, and segments have two. Point P here acts as both — it's an endpoint for these shapes.
- 21) **Choice D is correct.** (4.NBT.B.4) Add from ones: $5 + 6 = 11$ (write 1, carry 1), $4 + 5 + 1 = 10$ (write 0, carry 1), $3 + 4 + 1 = 8$, $2 + 3 = 5$, $1 + 2 = 3$. The sum is **35,801**.
- 22) **Choice B is correct.** (4.MD.C.7) The two folds meet at a point. Combine their angles: $70^\circ + 20^\circ = 90^\circ$.
- 23) **The correct answer is 17.** (4.OA.B.4) Add 3 each time: 2, 5, 8, 11, 14, **17**. Figure 6 has **17** squares.
- 24) **Choice D is correct.** (4.NF.A.1) Look at the shaded areas: Model A shows $\frac{1}{2}$, and Model C shows $\frac{2}{4}$. When you split each half in half, you get $\frac{1}{2} = \frac{2}{4}$. Model B is $\frac{1}{3}$ —a different amount.
- 25) **Choice D is correct.** (4.OA.A.1) "6 times as many" tells us to multiply. Tara has 6 groups of Nina's 4 apples: $4 \times 6 = 24$ apples.
- 26) **Choice A is correct.** (4.NF.B.4) For $2 \times \frac{3}{5}$, we need 2 bars, each divided into 5 parts with 3 parts shaded in each bar. Picture A shows exactly this: two bars with $\frac{3}{5}$ shaded in each. The answer is Picture A.



Ahoy, Math Sailor!

◇ You sailed through 5 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 5 practice tests. You will reach safe harbor!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Captain

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

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Measure growth across multiple practice tests.



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- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
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A+