

8

Connecticut

Smarter Balanced

GRADE 4

PRACTICE TESTS



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

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 Connecticut 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 harbor towns, library corners, and careful notebook work, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Connecticut Math Explorer!

Eight steady rounds on the Constitution State math route

This book gives you eight full Grade 4 practice tests for Smarter Balanced. Each round uses harbor towns, library corners, and careful notebook work to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Connecticut 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 Connecticut 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 Constitution 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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1) An error analysis: A student added $\frac{2}{4} + \frac{3}{4}$ and got $\frac{5}{8}$. What did the student do wrong?

- A. Added the denominators instead of keeping them the same.
- B. Subtracted instead of added.
- C. Forgot to simplify.
- D. Used the wrong denominator in the answer.

2) There are 4 basketballs. There are 8 times as many tennis balls. How many tennis balls are there?

- A. 4
- B. 12
- C. 2
- D. 32

3) A farm sells 2,160 eggs in cartons of 6 eggs each. How many cartons can they fill?

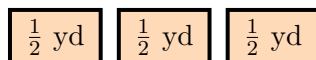
4) Write $\frac{9}{10}$ as a decimal.

5) Which pair of measurements is equivalent?

- A. 2 km and 200 m
- B. 4 m and 4,000 cm
- C. 5 cm and 50 mm
- D. 6 m and 600 mm



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- 6) 3 strips, each $\frac{1}{2}$ yard

This shows 3 ribbon strips. Each strip is $\frac{1}{2}$ yard. What is the total length?

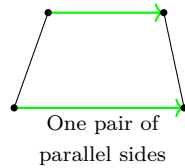
- A. $\frac{3}{6}$
 C. $\frac{1}{2}$
 B. $\frac{3}{2}$ yards (or $1\frac{1}{2}$ yards)
 D. 3 yards
- 7) Use the chart to find the number.

Thousands	Hundreds	Tens	Ones
9	0	5	3

- A. 953
 C. 9,530
 B. 9,503
 D. 9,053
- 8) A student folds a piece of paper creating a crease. The angle on one side of the crease is 67° . If the total angle formed is 134° , what is the angle on the other side?
- A. 67°
 C. 201°
 B. 68°
 D. 134°
- 9) Subtract: $4\frac{2}{6} - 1\frac{5}{6}$.



- 1) Look at the figure. It has one pair of parallel sides marked with matching arrows. Which shape is it?



- A. Parallelogram
- B. Rectangle
- C. Trapezoid
- D. Rhombus
- 2) What is $\frac{45}{100}$ as a decimal?
- A. 4.5
- B. 0.45
- C. 0.045
- D. 45.0
- 3) Ava eats 3 of 8 equal pizza slices. What fraction of the pizza did she eat?

- 4) If you have 8 copies of $\frac{1}{12}$, what fraction do you have?
- A. $\frac{8}{12}$
- B. $\frac{1}{96}$
- C. $\frac{12}{8}$
- D. $\frac{1}{8}$



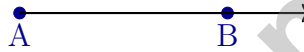
5) A recipe is for 2 people and uses $\frac{3}{4}$ cup of oil. How much oil is needed if you make the recipe for 8 people (4 times the recipe)?

- A. $\frac{12}{4}$ cups (or 3 cups) C. $\frac{8}{4}$ cups (or 2 cups)
 B. $\frac{4}{3}$ cups D. $\frac{12}{16}$ cup

6) A box of cereal weighs 6 kilograms. How many grams is this?

- A. 600 C. 60,000
 B. 6,000 D. 600,000

7) In this diagram, which description best matches the ray shown?



- A. Ray from B through A C. Line segment AB
 B. Ray from A through B D. Line through A and B
- 8) Leo has 11 bags of marbles. Each bag has 32 marbles. How many marbles does Leo have?

- A. 242 C. 315
 B. 401 D. 352

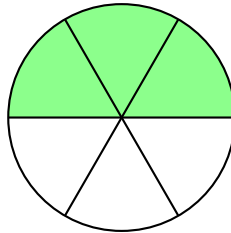
9) A container has a mass of 5 kg. If Isabella adds $2\frac{1}{2}$ kg of apples and $1\frac{1}{2}$ kg of oranges, what is the total mass?

- A. 7 kg C. 9 kg
 B. 8 kg D. 10 kg



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- 1) Look at the circle divided into equal parts. Which expression shows the shaded amount as a sum of unit fractions?



Pie divided into 6 equal slices

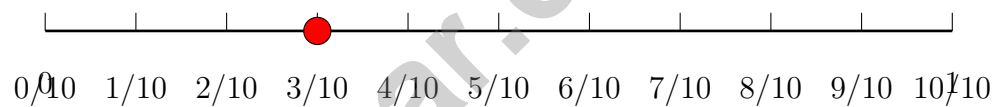
A. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

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

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

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

- 2) Look at the number line below.



What fraction is marked on the number line?

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

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

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

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

- 3) Leo reads 2 books. His sister reads 5 times as many books as Leo. How many books does his sister read?

A. 3

B. 7

C. 5

D. 10



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4) Which number has a 9 in the hundreds place?

A. 9,234

C. 2,019

B. 3,590

D. 1,945

5) What is 64,950 rounded to the nearest thousand?

A. 64,900

C. 65,000

B. 64,000

D. 60,000

6) Ming read 1,234 pages in one month and 2,567 pages the next month. How many pages did she read in both months combined?

7) Diego used $\frac{9}{10}$ of his water supply. He used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Which shows this decomposition?

A. $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$

C. $\frac{7}{10} + \frac{1}{10} = \frac{8}{10}$

B. $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$

D. $\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$

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



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.NF.B.3) The student added the denominators by mistake: $4 + 4 = 8$. That's the trap! With like denominators, keep it the same. Correct: $2 + 3 = 5$ numerators, same denominator gives $\frac{5}{4}$, not $\frac{5}{8}$.
- 2) **Choice D is correct.** (4.OA.A.1) "8 times as many" is a multiplication signal. Make 8 groups of the 4 basketballs: $4 \times 8 = 32$ tennis balls.
- 3) **The correct answer is 360.** (4.NBT.B.6) Divide: $21 \div 6 = 3$ r3, bring down the 6 to get $36 \div 6 = 6$, bring down the 0 to get $0 \div 6 = 0$. The farm fills **360** cartons of eggs.
- 4) **The correct answer is 0.9.** (4.NF.C.5) Nine tenths fills the first decimal place: $\frac{9}{10} = 0.9$.
- 5) **Choice C is correct.** (4.MD.A.1) Check each option. A: 2 km = 2,000 m, not 200 m. B: 4 m = 400 cm, not 4,000 cm. C: 5 cm = $5 \times 10 = 50$ mm. Correct! D: 6 m = 6,000 mm, not 600 mm. The answer is **C**.
- 6) **Choice B is correct.** (4.NF.B.4) We have 3 ribbon strips that are each $\frac{1}{2}$ yard long. We multiply: $3 \times \frac{1}{2} = \frac{3}{2} = 1\frac{1}{2}$ yards total.
- 7) **Choice D is correct.** (4.NBT.A.1) Reading the chart left to right: thousands 9, hundreds 0, tens 5, ones 3. This gives **9,053**. ✓
- 8) **Choice A is correct.** (4.MD.C.7) The crease splits the angle into two parts. Subtract to find the other: $134^\circ - 67^\circ = 67^\circ$.
- 9) **The correct answer is $2\frac{3}{6}$.** (4.NF.B.3) Since $\frac{2}{6} < \frac{5}{6}$, regroup: $4\frac{2}{6} = 3\frac{8}{6}$. Subtract the wholes: $3 - 1 = 2$. Subtract the fractions: $\frac{8}{6} - \frac{5}{6} = \frac{3}{6}$. The answer is $2\frac{3}{6}$.
- 10) **Choice C is correct.** (4.NF.A.1) Equivalent fractions in disguise: $\frac{1}{5} = \frac{2}{10}$. Both ate the same amount of pizza.
- 11) **Choice A is correct.** (4.NF.B.3) The rectangle has 8 equal columns, and 5 are painted red. So $\frac{5}{8}$ is red, which is $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ —five unit fractions.
- 12) **Choice A is correct.** (4.NF.B.3) A gift was wrapped with ribbon in two parts. Add the ribbon used: $2\frac{3}{8} + 1\frac{1}{8} = 3\frac{4}{8}$ meters total.
- 13) **Choice D is correct.** (4.NF.A.1) Circle A shows $\frac{1}{3}$ shaded (120 degrees). Circle B has 6 parts. Multiply numerator and denominator by 2: $\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$.
- 14) **The correct answer is A, E.** (4.OA.B.4) Even numbers end in 0, 2, 4, 6, 8. Pattern A (2, 4, 6, 8, 10) is all even. Pattern E (4, 8, 12, 16, 20) is all even. Patterns B, C, D each have odd numbers. Correct pairs: A and E. ✓
- 15) **Choice D is correct.** (4.OA.A.2) "4 times as many" is a multiplication signal: $4 \times 12 = 48$. *Tip:* $4 \times 10 = 40$ and $4 \times 2 = 8$, so $40 + 8 = 48$ sports books.
- 16) **Choice A is correct.** (4.NBT.B.4) Subtract by place value: no regrouping is needed. The answer is **32,324**.
- 17) **Choice B is correct.** (4.G.A.1) Perpendicular lines are special because they always cross at exactly 90° — a perfect right angle. That little square symbol shows you where they meet.
- 18) **Choice A is correct.** (4.MD.A.2) Flour weighs 32 ounces and sugar weighs 25 ounces. Subtract to find the difference: $32 - 25 = 7$ ounces. The flour weighs **7** ounces more.
- 19) **Choice A is correct.** (4.NF.C.5) Point X is near 0.3, at 0.28. Point Y is near 0.7, at 0.72. Since $0.28 < 0.72$, we have $X < Y$.
- 20) **Choice A is correct.** (4.G.A.2) The arrows clearly mark exactly one pair of parallel sides, which is the defining characteristic of a trapezoid. The other two sides are not parallel. The answer is **A**.
- 21) **Choice B is correct.** (4.NF.B.4) Each piece is $\frac{1}{8}$ meter long. With 5 pieces, the total length is $5 \times \frac{1}{8} = \frac{5}{8}$ meter.
- 22) **Choice D is correct.** (4.OA.B.4) Test each: $21 = 3 \times 7$ (composite); $22 = 2 \times 11$ (composite); $24 = 2 \times 12$ (composite); 29 has no factors besides 1 and itself—**prime!**
- 23) **Choice C is correct.** (4.MD.B.4) Add up all the X marks: $1 + 2 + 3 = 6$ X marks in total.
- 24) **Choice C is correct.** (4.NF.B.4) We take 4 copies of $\frac{3}{8}$. Multiply: $4 \times \frac{3}{8} = \frac{4 \times 3}{8} = \frac{12}{8} = 1\frac{4}{8} = 1\frac{1}{2}$. The answer is $1\frac{1}{2}$.
- 25) **Choice B is correct.** (4.MD.C.5) Divide the degrees by 360: $\frac{120}{360} = \frac{1}{3}$ (simplifying by 120). Answer: $\frac{1}{3}$.
- 26) **Choice C is correct.** (4.NF.B.4) Maya hops by halves: $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}$. After 3 hops, she reaches $\frac{3}{2}$.
- 27) **Choice C is correct.** (4.MD.A.3) Count the grid squares: 4 columns \times 3 rows = 12 square units.



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Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 8 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

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.

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- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
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- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ Mathematical Reasoning
- ✓ And More! ★



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