

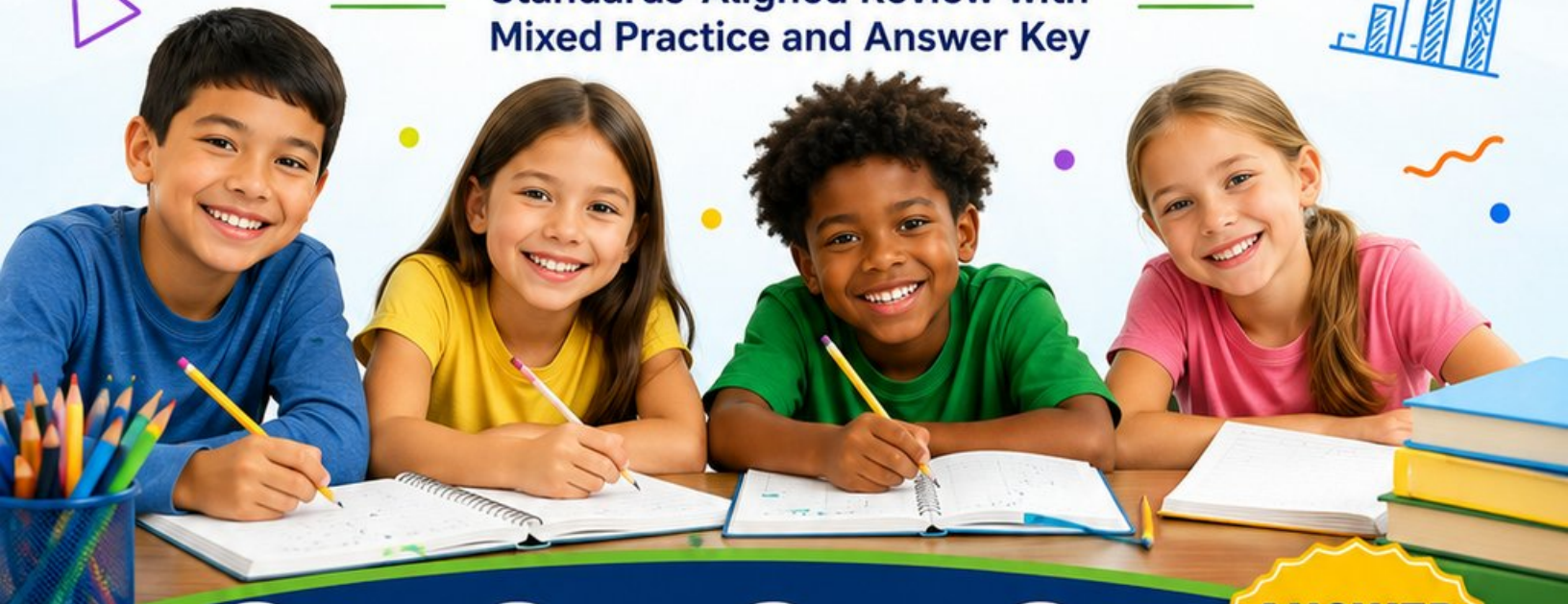
# 7

# Connecticut

Smarter Balanced

## GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$



7 Full-Length  
Practice Tests



Standards-  
Aligned



Build Confidence  
and Skills



Mixed Question  
Types

**ANSWER  
KEY**

**INCLUDED**

# 7 Connecticut Smarter Balanced Grade 4 Math Practice Tests

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



Seven 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!

Seven steady rounds on the Constitution State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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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For more practice  
& answers

# Table of Contents

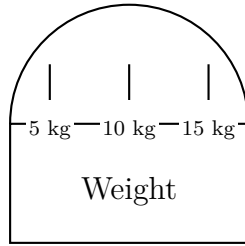
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- 1) The population of City A is 47,892. City B's population is 23,456 less than City A. What is City B's population?
- A. 24,436                       C. 25,436  
 B. 24,536                       D. 24,346
- 2) Ava read 4,623 pages in a book series. Round to the nearest hundred to estimate pages read.
- A. 4,600                       C. 4,700  
 B. 4,620                       D. 5,000
- 3) In the number 7,846, what digit is in the tens place?
- A. 7                               C. 4  
 B. 8                               D. 6
- 4) How many lines of symmetry does a non-square rectangle have?



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Weight Scale

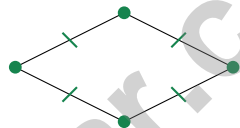


5)

A scale shows that a dog weighs 12 kilograms. How many grams does the dog weigh?

- A. 1,200 g
- B. 12,000 g
- C. 120,000 g
- D. 1,200,000 g

6) Look at the shape shown. It is a quadrilateral with four equal sides but no right angles. What is it?

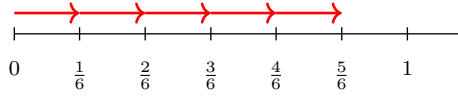


All sides equal

- A. Rectangle
- B. Square
- C. Rhombus
- D. Trapezoid

7) An angle is labeled  $77^\circ$ . What is its measure in degrees?

- 8) A number line shows unit-fraction jumps of  $\frac{1}{6}$  starting at 0. After 5 jumps, you are at position:



- A.  $\frac{3}{6}$ 
 C.  $\frac{5}{6}$   
 B.  $\frac{4}{6}$ 
 D.  $\frac{6}{6}$
- 9) A serving of pasta is  $\frac{1}{3}$  pound. How much pasta is in 6 servings?
- A.  $\frac{1}{18}$  pound
  C.  $\frac{6}{18}$  pound  
 B.  $\frac{6}{3}$  pounds (or 2 pounds)
  D.  $\frac{1}{2}$  pound
- 10) Diego draws a rectangle with a length of 6 cm and a width of 4 cm. What is the area of his rectangle?
- A. 10 sq cm
  C. 24 sq cm  
 B. 20 sq cm
  D. 30 sq cm
- 11) A pattern shows figures made of small squares arranged in columns:

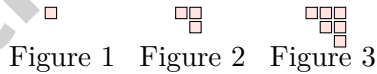


Figure 1   Figure 2   Figure 3

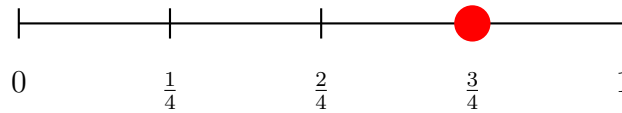
How many unit squares are in Figure 6?

- A. 18
  C. 24  
 B. 28
  D. 21



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1) Which fraction is shown on the number line?



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

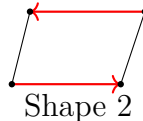
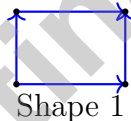
B.  $\frac{3}{4}$

C.  $\frac{5}{8}$

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

2) Emma starts reading at 1:20 p.m. and finishes at 2:35 p.m. How many minutes did she read?

3) Look at the two shapes shown. Which one is a trapezoid?

 A. Shape 1 B. Shape 2 C. Both shapes D. Neither shape

4) Round 66,505 to the nearest thousand.

 A. 66,000 B. 70,000 C. 66,500 D. 67,000

5) Ava reads 8 pages a day for 12 days. Noah reads 10 pages a day for 9 days. How many more pages does Ava read than Noah?

- A. 2 pages  
 B. 18 pages  
 C. 26 pages  
 D. 6 pages

6) Ming has 5 bags of marbles. Each bag has  $\frac{3}{10}$  pound of marbles. What is the total weight?

- A.  $\frac{5}{30}$  pounds  
 B.  $\frac{15}{10}$  or  $1\frac{1}{2}$  pounds  
 C.  $\frac{3}{50}$  pounds  
 D.  $\frac{8}{10}$  pounds

7) How many positive factors does 40 have?

8) Three hops of  $\frac{1}{4}$  land at what fraction?

9) Which ordering is correct?

- A.  $\frac{4}{5} > \frac{4}{6} > \frac{4}{8}$   
 B.  $\frac{4}{8} > \frac{4}{6} > \frac{4}{5}$   
 C.  $\frac{4}{5} = \frac{4}{6} = \frac{4}{8}$   
 D.  $\frac{4}{6} > \frac{4}{5} > \frac{4}{8}$



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1) Which shape can be described as having four equal sides, two pairs of parallel sides, and four right angles?

A. Trapezoid

C. Square

B. Rhombus

D. Rectangle

2) In 45,328, how many thousands are there?

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

A. 243 points

C. 280 points

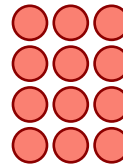
B. 380 points

D. 306 points

4) Look at the groups below.



Group 1: 3 counters



Group 2: 12 counters

Group 2 has how many times as many counters as Group 1?

A. 3

C. 6

B. 9

D. 4



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& answers

5) Noah's class collected 455 books. They want to donate them equally to 5 libraries. How many books go to each library?

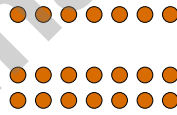
 A. 81 C. 97 B. 85 D. 91

6) A garden bed requires  $\frac{2}{3}$  bag of soil. How many bags are needed for 6 garden beds?

 A.  $\frac{6}{3}$  bags (or 2 bags) C.  $\frac{12}{3}$  bags (or 4 bags) B.  $\frac{2}{18}$  bag D.  $\frac{6}{9}$  bag

7) Write  $\frac{8}{5}$  as a mixed number.

Paige



Quinn

8)

Paige has 7 bookmarks. Quinn has 2 times as many bookmarks as Paige. How many bookmarks does Quinn have?



## 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 A is correct.** (4.NBT.B.4) City B is smaller, so we subtract.  $47,892 - 23,456 = 24,436$  people.
- Choice A is correct.** (4.NBT.A.3) We're rounding to the nearest hundred. Look at the tens digit: 2. Since  $2 < 5$ , we round DOWN. The hundreds digit stays at 6, so Ava read about **4,600** pages. ✓
- Choice C is correct.** (4.NBT.A.2) From right to left: ones, then tens. In 7,846, the tens digit is 4 ✓
- The correct answer is 2.** (4.G.A.3) A rectangle that's not square is longer in one direction. It balances perfectly along a vertical line through the middle and a horizontal line through the middle. The answer is **2**.
- 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 C is correct.** (4.G.A.2) A rhombus has four equal sides and two pairs of parallel sides, but does not require right angles. The figure shows equal sides marked on all four sides with no right angles, which defines a rhombus. The answer is **C**.
- The correct answer is  $77^\circ$ .** (4.MD.C.5) The label gives the angle measure:  **$77^\circ$** .
- Choice C is correct.** (4.NF.B.4) Starting at 0, each jump is  $\frac{1}{6}$ . After 5 jumps, we've moved  $5 \times \frac{1}{6} = \frac{5}{6}$  of the way.
- Choice B is correct.** (4.NF.B.4) Six servings, each  $\frac{1}{3}$  pound, give us  $6 \times \frac{1}{3} = \frac{6}{3} = 2$  pounds of pasta.
- Choice C is correct.** (4.MD.A.3) Multiply length by width:  $6 \times 4 = 24$  sq cm.
- 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 C is correct.** (4.MD.B.4) Multiply each measurement by its count, then add:  $(2 \times \frac{1}{8}) + (4 \times \frac{3}{8}) + (1 \times \frac{7}{8}) = \frac{2}{8} + \frac{12}{8} + \frac{7}{8} = \frac{21}{8}$ .
- Choice A is correct.** (4.NBT.B.6) Divide:  $20 \div 9 = 2$  r2, bring down the 1 to get  $21 \div 9 = 2$  r3, bring down the 6 to get  $36 \div 9 = 4$ . Each box holds **224** action figures.
- Choice B is correct.** (4.MD.C.6) A right angle is a special angle that measures exactly  $90^\circ$  every time—no more, no less. You see right angles at the corners of books, windows, doors, and many shapes we use every day. The answer is **90** degrees.
- The correct answer is  $1\frac{1}{5}$ .** (4.NF.B.3) The baker used some almonds from her supply. Subtract the amount used:  $3\frac{2}{5} - 2\frac{1}{5} = 1\frac{1}{5}$  pounds of almonds remain.
- The correct answer is A, C.** (4.G.A.1) Angle 1 opens just a little (about  $35^\circ$ ), making it acute. Angle 2 has that perfect right angle marker, so it's  $90^\circ$ . They're definitely not equal to each other!
- Choice C is correct.** (4.NF.B.3) Add the wholes:  $3 + 2 = 5$ . Add the fractions:  $\frac{2}{5} + \frac{3}{5} = \frac{5}{5} = 1$ . Combine:  $5 + 1 = 6$  pages.
- Choice B is correct.** (4.NF.B.3) Ava starts with  $\frac{2}{5}$  and Diego adds  $\frac{2}{5}$  more. With the same-size fifths, we get  $2 + 2 = 4$  fifths:  $\frac{4}{5}$ .
- Choice A is correct.** (4.MD.C.5)  $180^\circ$  is exactly twice as large as  $90^\circ$ :  $180^\circ = 2 \times 90^\circ$ . So  **$180^\circ$**  is 2 times  **$90^\circ$** .
- Choice B is correct.** (4.NF.C.5) Ninety hundredths is written as  $0.90 = 0.9$ .
- Choice D is correct.** (4.OA.A.2) The longer bar (24 apples) is 4 equal pieces, each one orange-group's size. To find one piece, divide:  $24 \div 4 = 6$  oranges.
- Choice A is correct.** (4.NF.B.4) Six parts, each one  $\frac{1}{9}$ :  $6 \times \frac{1}{9} = \frac{6}{9}$ .
- Choice B is correct.** (4.MD.C.7) A right angle is  $90^\circ$ . Subtract the known part:  $90^\circ - 35^\circ = 55^\circ$ .
- Choice D is correct.** (4.NF.A.1) All have numerator 1, so compare denominators: bigger denominators mean smaller pieces. Order:  $4 < 3 < 2$ , so  $\frac{1}{4} < \frac{1}{3} < \frac{1}{2}$ .
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: equal groups means divide.  $24 \div 4 = 6$  stickers in the group Sam keeps. Step 2: add the new stickers:  $6 + 8 = 14$  stickers now.
- Choice B is correct.** (4.MD.C.5) The angle goes slightly beyond the  $8^\circ$  tick mark, so approximately **9** one-degree angles is the best estimate.
- Choice D is correct.** (4.OA.A.1) "2 times as long" is a multiplication signal. The length is  $7 \times 2 = 14$  feet.



### A Quiet Word From Your Mentor

---

#### Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 7 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

#### What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

**Mentor's note:** on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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 Mentor

# 7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



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- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Confidence Building
- ✓ Skill Reinforcement

★ CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

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.



### Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
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Answer Key Included