

6

Connecticut

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 Connecticut 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 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!

Six steady rounds on the Constitution State math route

This book gives you six 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?

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.

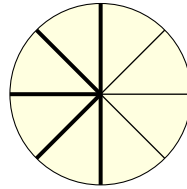


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& answers

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1) How many rays form an angle?



Pie divided into eighths

2)

James eats $\frac{1}{8}$ of a pie each day. How much of the pie does he eat in 5 days?

A. $\frac{1}{40}$ of the pie

C. $\frac{5}{40}$ of the pie

B. $\frac{5}{8}$ of the pie

D. $\frac{6}{8}$ of the pie

3) Which fraction is closest to 1 whole?

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

C. $\frac{6}{10}$

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

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

4) A line plot with eighths shows data at: $\frac{2}{8}$ (2 X marks), $\frac{4}{8}$ (3 X marks), $\frac{6}{8}$ (1 X mark).

What is the range of this data?

A. $\frac{2}{8}$

C. $\frac{4}{8}$

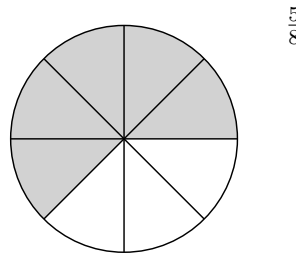
B. $\frac{3}{8}$

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



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- 10) On a pie chart divided into 8 equal slices, how many slices represent $\frac{5}{8}$ of the pie?



- A. 2 slices C. 5 slices
 B. 3 slices D. 8 slices
- 11) A rectangle has a length of 11 feet and a width of 7 feet. What is its perimeter?
- A. 36 ft C. 54 ft
 B. 18 ft D. 77 ft
- 12) $\frac{4}{5}$ is equivalent to $\frac{?}{20}$. What is the missing numerator?
- A. 12 C. 18
 B. 24 D. 16
- 13) How many $\frac{1}{3}$ are there in the expression $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$?
- A. 3 C. 9
 B. 6 D. 12
- 14) Each plant needs $\frac{1}{6}$ gallon of water. Olivia has 8 plants. How much water does she need?
- A. $\frac{1}{48}$ gallon C. $\frac{7}{6}$ gallon
 B. $\frac{8}{6}$ gallon or $1\frac{1}{3}$ gallons D. $\frac{8}{1}$ gallon



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1) A pizza box is a rectangle with a length of 14 inches and a width of 14 inches. What is the area of the box?

A. 196 sq in

C. 56 sq in

B. 228 sq in

D. 28 sq in

2) A bakery sold 56 donuts on Monday. On Tuesday, the bakery sold 7 times as many donuts. How many donuts did the bakery sell on Tuesday?

3) Which addition is correct?

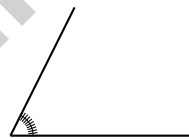
A. $5,234 + 3,456 = 8,690$

C. $5,234 + 3,456 = 8,780$

B. $5,234 + 3,456 = 8,590$

D. $5,234 + 3,456 = 9,690$

4)



This angle is marked from 0° to 63° . What is the measure?

A. 63°

C. 62°

B. 64°

D. 126°



5) Which fraction can be written as $4 \times \frac{1}{5}$?

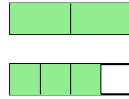
A. $\frac{4}{5}$

C. $\frac{4}{20}$

B. $\frac{1}{20}$

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

6) Which mixed number is shown?



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

C. $1\frac{3}{4}$

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

D. $2\frac{1}{4}$

7) Which fraction bar shows $\frac{4}{6} + \frac{2}{6}$?



$\frac{4}{6}$ (green) + $\frac{2}{6}$ (orange)

A. $\frac{4}{12}$

C. $\frac{6}{12}$

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

D. $\frac{6}{8}$

8) A repeating pattern uses colors: red, blue, green, red, blue, green. What color is the 11th item?

A. Red

C. Green

B. Yellow

D. Blue

9) Two rays form an angle with a measure of 80° . If one part of the angle is 32° , what is the measure of the other part?

A. 48°

C. 112°

B. 50°

D. 35°



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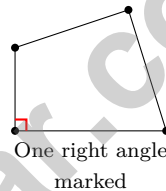
1) Use this place-value chart:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
4	1	8	5	2	3

What is the standard numeral?

- A. 418,253 C. 418,352
 B. 481,523 D. 418,523

2) A quadrilateral has one right angle marked. How many pairs of parallel sides does it have?



- A. Zero pairs C. Two pairs
 B. One pair D. Cannot tell from the image

3) Sam has 3 dimes and 30 pennies. Which shows why these amounts are equal?

- A. 3 dimes = $\frac{3}{10}$ dollar; 30 pennies = $\frac{30}{100}$ dollar C. 3 dimes = $\frac{3}{100}$ dollar; 30 pennies = $\frac{30}{100}$ dollar
 B. 3 dimes = $\frac{30}{10}$ dollar; 30 pennies = $\frac{30}{100}$ dollar D. 3 dimes = $\frac{13}{10}$ dollar; 30 pennies = $\frac{30}{100}$ dollar



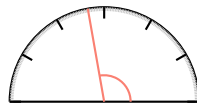
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4) What is the name of the point where the two rays of an angle meet?

- A. The arc
 B. The side
 C. The vertex
 D. The interior

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

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



6)

Ming measures an angle and the measurement is just past 90 degrees. Which classification is correct?

- A. Obtuse angle
 B. Right angle
 C. Acute angle
 D. Straight angle

7) Ava has two bags of stickers. One bag has 4 stickers out of 8 total. The other bag has 2 stickers out of 4 total. Are the fractions of stickers equivalent?

- A. Yes, both are $\frac{1}{2}$
 B. Yes, both are $\frac{1}{4}$
 C. No, the fractions are different
 D. Cannot be determined

8) A pinwheel turns 60° . What fraction of a full turn is this?

- A. $\frac{1}{6}$
 B. $\frac{1}{4}$
 C. $\frac{1}{3}$
 D. $\frac{1}{2}$



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

- The correct answer is 2.** (4.MD.C.5) An angle is formed by **2** rays that share a vertex.
- Choice B is correct.** (4.NF.B.4) James eats $\frac{1}{8}$ of the pie each day for 5 days. We multiply: $5 \times \frac{1}{8} = \frac{5}{8}$ of the pie.
- Choice D is correct.** (4.NF.B.3) To get to 1: A needs $\frac{2}{6}$ more, B needs $\frac{3}{8}$ more, C needs $\frac{4}{10}$ more, D needs only $\frac{1}{4}$ more. The tiniest gap is $\frac{1}{4}$, so $\frac{3}{4}$ wins.
- 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 $\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$.
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: take away the sheep she sold: $80 - 25 = 55$. Step 2: add the new sheep: $55 + 30 = 85$ sheep.
- Choice D is correct.** (4.NF.A.1) All three fractions reduce to $\frac{1}{2}$: Bar 1 has $\frac{3}{6} = \frac{1}{2}$, Bar 2 has $\frac{4}{8} = \frac{1}{2}$, Bar 3 has $\frac{5}{10} = \frac{1}{2}$. Equal size, equal shading!
- Choice C is correct.** (4.G.A.3) A circle is super special! No matter which direction you draw a line through its center, both sides match perfectly. You could draw infinitely many such lines, so a circle has infinitely many lines of symmetry.
- Choice A is correct.** (4.NF.B.4) Four groups of $\frac{1}{3}$ each: $4 \times \frac{1}{3} = \frac{4}{3}$, which is $1\frac{1}{3}$ candy bars.
- Choice D is correct.** (4.NBT.A.1) In 1,289, the digit 8 is in the tens place. Its value is $8 \times 10 = 80$. ✓
- Choice C is correct.** (4.NF.B.4) The circle is divided into 8 equal slices. The fraction $\frac{5}{8}$ means 5 of those slices are shaded. So there are **5** slices.
- Choice A is correct.** (4.MD.A.3) $P = 2(11) + 2(7) = 22 + 14 = 36$ ft.
- Choice D is correct.** (4.NF.A.1) The denominator changes from 5 to 20. Divide: $20 \div 5 = 4$. So multiply the numerator by 4: $4 \times 4 = 16$.
- Choice B is correct.** (4.NF.B.3) Look at the expression: $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$. Count them: **6** copies of $\frac{1}{3}$.
- Choice B is correct.** (4.NF.B.4) Each plant needs $\frac{1}{6}$ gallon, and Olivia has 8 plants. Multiply: $8 \times \frac{1}{6} = \frac{8 \times 1}{6} = \frac{8}{6} = 1\frac{1}{3}$ gallons. The answer is **1** $\frac{1}{3}$ gallons.
- The correct answer is A, C.** (4.OA.A.2) “4 times as many” means $4 \times 8 = 32$ pins—that’s choice A. The equation in C, $x = 4 \times 8$, captures the same idea. Choice B (12) is wrong (likely from $8 + 4$); D incorrectly says 2 times instead of 4; and E uses addition, not multiplication.
- Choice A is correct.** (4.NBT.B.6) Use long division: $16 \div 8 = 2$, bring down the 2 to get $2 \div 8 = 0$ r2, bring down the 4 to get $24 \div 8 = 3$. Each shelf gets **203** books.
- Choice C is correct.** (4.MD.C.7) When pie slices are combined, their angles add up: $40^\circ + 60^\circ = 100^\circ$.
- The correct answer is 240.** (4.MD.C.5) Two-thirds of the full turn: $\frac{2}{3} \times 360^\circ = 240^\circ$.
- Choice C is correct.** (4.MD.C.6) At 110° , this angle opens wider than a right angle. Since it’s between 90° and 180° , it’s definitely obtuse. The answer is obtuse.
- Choice D is correct.** (4.NBT.B.5) Split and calculate: $18 \times (10 + 6) = 180 + 108 = 288$ square units.
- Choice A is correct.** (4.NF.B.3) One whole is $\frac{6}{6}$, plus $\frac{1}{6}$ more: $6 + 1 = 7$, so $\frac{6}{6} + \frac{1}{6} = \frac{7}{6} = 1\frac{1}{6}$. ✓
- The correct answer is 5,433.** (4.NBT.B.4) Subtracting from 10,000 chains a regrouping all the way across. Borrow from the ten-thousands ($1 \rightarrow 0$); the three middle zeros become 9s and the ones becomes 10. Now: $10 - 7 = 3$, $9 - 6 = 3$, $9 - 5 = 4$, $9 - 4 = 5$, $0 - 0 = 0$. Result: **5,433**. ✓
- Choice C is correct.** (4.OA.B.4) For both numbers to be factors, both must divide 36 evenly. Check: $36 \div 6 = 6$ ✓ and $36 \div 9 = 4$ ✓. Choice A: 8 doesn’t divide 36 ($36 \div 8 = 4$ r4); choice B: 7 doesn’t divide 36; choice D: 8 doesn’t divide 36.
- Choice D is correct.** (4.NBT.A.2) “Seventy-eight thousand” = 78,000, so the full number is 78,412. The digit 8 is in the thousands place ✓
- 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.A.2) The movie starts at 2:30 p.m. and ends at 4:15 p.m. From 2:30 to 3:30 is 60 minutes, plus 45 more to 4:15. Total: $60 + 45 = 105$ minutes. The movie is **105** minutes long.



From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 6 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

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.

Ideal for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

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

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SUCCESS FOR LIFE.**

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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.



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
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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