

# 4

# Connecticut

## Smarter Balanced

### GRADE 4

# MATH

## PRACTICE TESTS



5 FULL-LENGTH  
PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key



STANDARDS-ALIGNED  
REVIEW



MIXED PRACTICE  
QUESTIONS



ANSWER KEY  
INCLUDED



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$

$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



# 4 Connecticut Smarter Balanced Grade 4 Math Practice Tests

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



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Connecticut Math Explorer!

Four steady rounds on the Constitution State math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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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1) A bag of sugar weighs 2 kilograms. How many grams is this?

A. 20

C. 2,000

B. 200

D. 20,000

2) A factory starts with 200 toy cars. They sell 50 cars. Then they pack the remaining cars into boxes of 6. How many complete boxes can they fill?

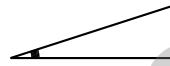
A. 24

C. 26

B. 33

D. 25

3)



This angle shows tick marks from 0 to 18 degrees. Write the measure of this angle.

4) Which comparison is true?

A.  $0.6 < 0.59$

C.  $0.6 > 0.59$

B.  $0.6 = 0.59$

D.  $0.6 < 0.5$

5) If you turn  $\frac{1}{6}$  of the way around a circle, how many degrees do you turn?

A.  $60^\circ$

C.  $120^\circ$

B.  $90^\circ$

D.  $180^\circ$



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6) The sides of an angle are:

A. segments

C. rays

B. lines

D. circles

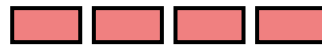
7) What is  $21 \times 41$ ?

A. 782

C. 841

B. 920

D. 861



4 pieces, each  $\frac{1}{2}$  pound

8)

Each piece above weighs  $\frac{1}{2}$  pound. What is the total weight of all 4 pieces?

9) A recipe needs  $\frac{2}{3}$  cup of flour. How can we write this as a sum of unit fractions?

A.  $\frac{1}{3} + \frac{1}{3}$

C.  $\frac{2}{3} + \frac{1}{3}$

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

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

10) A right angle is split into two smaller angles. One angle measures  $28^\circ$  more than the other. If the smaller angle is  $31^\circ$ , what is the measure of the other angle?

A.  $59^\circ$

C.  $90^\circ$

B.  $31^\circ$

D.  $62^\circ$



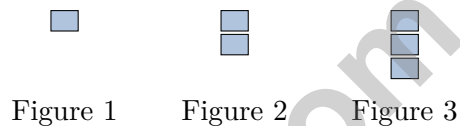
11) Use the table to compare the two six-digit numbers:

	100,000s	10,000s	1,000s	100s	10s	1s
Number X	3	2	1	9	4	7
Number Y	3	2	2	0	1	5

Which statement is true?

- A.  $321,947 > 322,015$ 
 C.  $321,947 = 322,015$   
 B. Cannot determine without more digits
  D.  $321,947 < 322,015$

12) Look at the growing pattern of blocks:



How many blocks are in Figure 8?

- A. 6
  C. 10  
 B. 12
  D. 8
- 13) A reading challenge requires finishing  $\frac{9}{12}$  of a book this week and  $\frac{2}{12}$  next week. After both weeks, how much of the book is left?

- A.  $\frac{1}{12}$ 
 C.  $\frac{7}{12}$   
 B.  $\frac{11}{12}$ 
 D.  $\frac{12}{12}$

14) Which fraction equals thirty-five hundredths?

- A.  $\frac{35}{10}$ 
 C.  $\frac{35}{100}$   
 B.  $\frac{3}{5}$ 
 D.  $\frac{53}{100}$



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1) What is  $31 \times 21$ ?

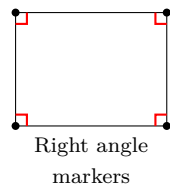
A. 651

C. 551

B. 341

D. 52

2) Look at this shape with right angle markers. How many right angles does it have?



A. One right angle

C. Three right angles

B. Two right angles

D. Four right angles

3) 3 times

A zoo has 30 zebras. The number of zebras is 3 times the number of giraffes. How many giraffes are in the zoo?

A. 5

C. 15

B. 25

D. 10

4) At a bakery, a cookie costs \$0.49 and a donut costs \$0.94. Which item costs less?

A. Cookie (\$0.49)

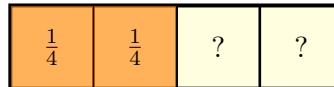
C. Both cost the same

B. Donut (\$0.94)

D. Cannot tell from prices



- 5) A rectangular swimming pool is 25 feet long and 15 feet wide. How many feet of rope are needed to go around the entire edge of the pool?

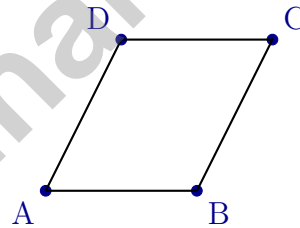


6)

The bar shows  $\frac{2}{4}$  shaded. If you have 4 such bars, what is the total shaded amount?

- |  |   |
|--|---|
| <input type="checkbox"/> A. $\frac{8}{4}$ (or 2) | <input type="checkbox"/> C. $\frac{4}{4}$ |
| <input type="checkbox"/> B. $\frac{2}{16}$       | <input type="checkbox"/> D. $\frac{6}{4}$ |

- 7) How many vertices are shown in this figure?



- |  |  |
|--|--|
| <input type="checkbox"/> A. 2 vertices | <input type="checkbox"/> C. 4 vertices |
| <input type="checkbox"/> B. 3 vertices | <input type="checkbox"/> D. 5 vertices |

- 8) What is  $\frac{7}{12} + \frac{2}{12}$ ?

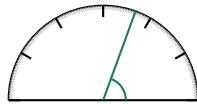
- |  |   |
|--|---|
| <input type="checkbox"/> A. $\frac{9}{24}$ | <input type="checkbox"/> C. $\frac{14}{12}$ |
| <input type="checkbox"/> B. $\frac{9}{12}$ | <input type="checkbox"/> D. $\frac{5}{12}$  |



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- 1) Kai has 15 toy cars. His mom gives him 9 more. He puts them all into 4 equal boxes. How many cars are in each box?

- A. 8                                       C. 9  
 B. 5                                       D. 6



2)

What is the measure of the angle shown, rounded to the nearest 10 degrees?

- A. 70 degrees                               C. 80 degrees  
 B. 60 degrees                               D. 90 degrees

- 3) On the number line, which fraction is between  $\frac{1}{4}$  and  $\frac{3}{4}$ ?



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

- 4) Which letter has exactly 2 lines of symmetry?

- A. *K*                                       C. *I*  
 B. *N*                                       D. *R*



5) Sam ate  $\frac{2}{6}$  of a pizza and Ming ate  $\frac{3}{6}$  of the same pizza. How much of the pizza did they eat together?

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

B.  $\frac{5}{12}$

C.  $\frac{1}{6}$

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

6) A triangle has all three angles less than  $90^\circ$ . How many acute angles does it have?

7) Diego cut a submarine sandwich into 8 equal pieces and ate 4 pieces. Maya cut an identical sandwich into 4 equal pieces and ate 2 pieces. Did they eat equivalent amounts?

A. Yes, both ate  $\frac{1}{2}$

B. Yes, both ate  $\frac{1}{4}$

C. No, Diego ate more

D. No, Maya ate more

8) A baker divides 540 cookies equally among 6 friends. How many cookies does each friend receive?

A. 80

B. 95

C. 90

D. 85

9) An artist draws an angle that measures  $158^\circ$ . She marks a line that splits this angle into two parts. If one part is  $84^\circ$ , what is the measure of the other part?

A.  $74^\circ$

B.  $242^\circ$

C.  $84^\circ$

D.  $90^\circ$



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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 C is correct.** (4.MD.A.1) Since 1 kilogram = 1,000 grams, multiply:  $2 \times 1,000 = 2,000$  g. The answer is **2,000** g.
- 2) **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).
- 3) **The correct answer is 18.** (4.MD.C.5) The angle spans from  $0^\circ$  to  $18^\circ$ , so it measures  **$18^\circ$** .
- 4) **Choice C is correct.** (4.NF.C.5) Compare place by place: Write 0.6 as 0.60. Now both have the same number of decimal places. Since  $60 > 59$  hundredths, we have  $0.6 > 0.59$ .
- 5) **Choice A is correct.** (4.MD.C.5) One-sixth of the circle is  $\frac{1}{6} \times 360^\circ = \mathbf{60^\circ}$ .
- 6) **Choice C is correct.** (4.MD.C.5) The two rays forming an angle are called the sides (or rays) of the angle.
- 7) **Choice D is correct.** (4.NBT.B.5) Break 41:  $21 \times (40 + 1) = 840 + 21 = \mathbf{861}$ .
- 8) **The correct answer is 2.** (4.NF.B.4) All 4 pieces, each weighing  $\frac{1}{2}$  pound, weigh  $4 \times \frac{1}{2} = \frac{4}{2} = 2$  pounds total.
- 9) **Choice A is correct.** (4.NF.B.3) The recipe needs  $\frac{2}{3}$  cup of flour. This is 2 equal pieces, each  $\frac{1}{3}$  cup. So  $\frac{2}{3} = \frac{1}{3} + \frac{1}{3}$ .
- 10) **Choice A is correct.** (4.MD.C.7) One angle is  $28^\circ$  larger. If the smaller one is  $31^\circ$ , then:  $31^\circ + 28^\circ = \mathbf{59^\circ}$ .
- 11) **Choice D is correct.** (4.NBT.A.2) The hundred-thousands and ten-thousands match. Thousands digits:  $1 < 2$ , so Number X is less ✓
- 12) **Choice D is correct.** (4.OA.B.4) Each figure has as many blocks as its number: Figure 1 has 1, Figure 2 has 2, Figure 3 has 3. So Figure 8 has **8** blocks.
- 13) **Choice A is correct.** (4.NF.B.3) The reading challenge spans two weeks. Step 1: Add what's read both weeks:  $\frac{9}{12} + \frac{2}{12} = \frac{11}{12}$ . Step 2: Find what's left:  $\frac{12}{12} - \frac{11}{12} = \frac{1}{12}$ .
- 14) **Choice C is correct.** (4.NF.C.5) The phrase "thirty-five hundredths" means  $\frac{35}{100}$ , which you write as a decimal: 0.35.
- 15) **The correct answer is A, D.** (4.OA.B.4) Test each by trying small prime divisors (2, 3, 5, 7). 31: passes all—**prime** ✓.  $33 = 3 \times 11$  (composite).  $35 = 5 \times 7$  (composite). 37: passes all—**prime** ✓.  $39 = 3 \times 13$  (composite). So choices A and D are the prime numbers.
- 16) **Choice A is correct.** (4.NBT.B.6) Use long division:  $3 \div 8 = 0$  r3, bring down the 1 to get  $31 \div 8 = 3$  r7, bring down the 9 to get  $79 \div 8 = 9$  r7, bring down the 2 to get  $72 \div 8 = 9$ . The quotient is **399**.
- 17) **Choice C is correct.** (4.G.A.2) A triangle has three sides, so it cannot have a pair of opposite sides. Parallel sides require opposite sides, which triangles do not have. Rectangles, parallelograms, and trapezoids all have parallel sides. The answer is **C**.
- 18) **Choice C is correct.** (4.MD.A.3) Poster area =  $16 \times 10 = 160$  sq in.
- 19) **Choice C is correct.** (4.NF.B.4) Step 1: Check each. Step 2:  $4 \times \frac{1}{6}$  should give  $\frac{4}{6}$ , not  $\frac{4}{12}$ . That's the wrong one!
- 20) **Choice B is correct.** (4.G.A.3) An isosceles trapezoid has two equal slanted legs and a vertical line of symmetry straight down the middle. This divides it so both sides match perfectly. The answer is **1** line of symmetry.
- 21) **Choice B is correct.** (4.NF.B.3) Since  $\frac{4}{10} < \frac{5}{10}$ , regroup:  $7\frac{4}{10} = 6\frac{14}{10}$ . Subtract:  $6\frac{14}{10} - 2\frac{5}{10} = \mathbf{4\frac{9}{10}}$ .
- 22) **Choice D is correct.** (4.NBT.A.1) In 5,003, the hundreds place has the digit 0. Its value is  $0 \times 100 = \mathbf{0}$ . ✓
- 23) **Choice A is correct.** (4.MD.C.6) The ray lines up exactly with the  $80^\circ$  mark. Since  $80^\circ$  is between the  $75^\circ$  and  $85^\circ$  range and less than  $90^\circ$ , it's acute. The answer is **80** degrees.
- 24) **Choice D is correct.** (4.OA.A.2) "2 times as many" tells us to multiply:  $2 \times 40 = 80$  cookies today.
- 25) **The correct answer is  $\frac{7}{3}$ .** (4.NF.B.4) When we multiply  $7 \times \frac{1}{3}$ , we get 7 copies of  $\frac{1}{3}$ . This is written as the fraction  $\frac{7}{3}$ .
- 26) **Choice B is correct.** (4.NF.C.5) First, convert  $\frac{6}{10}$  to hundredths:  $\frac{6}{10} = \frac{60}{100}$ . Then add:  $\frac{60}{100} + \frac{20}{100} = \frac{80}{100}$ .
- 27) **Choice C is correct.** (4.NF.A.1) The bars show the same shaded length, so  $\frac{3}{5} = \frac{6}{10}$  (equivalent). Since  $10 > 5$ , the second denominator is larger.
- 28) **Choice D is correct.** (4.MD.B.4) Count X marks at values  $\geq \frac{3}{4}$  inch. At  $\frac{3}{4}$  inch: 3 marks. At  $\frac{5}{4}$  inches: 2 marks. At  $\frac{7}{4}$  inches: 1 mark. Total:  $3 + 2 + 1 = \mathbf{6}$  marks.
- 29) **Choice A is correct.** (4.NBT.B.4) The farmer uses some grain, so we subtract.  $23,456 - 5,678 = \mathbf{17,778}$  kg left.



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& answers

Notes From the Math Gardener

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## Hi, Math Gardener!

◇ Look at how much you grew! 4 tests is like 4 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

### Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

**Gardener tip:** keep watering your math garden long after the test. Every habit you built will grow with you for years!

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 Gardener

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

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

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ **CONFIDENCE TODAY.  
SUCCESS TOMORROW!**

## 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.



### 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 & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



Visit [testinar.com/math4](https://testinar.com/math4) for additional Grade 4 math resources and practice materials.

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



4 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED REVIEW



MIXED PRACTICE QUESTIONS