

9

# Connecticut

## Smarter Balanced

# GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,  
WORD PROBLEMS, AND ANSWER KEY



10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

# 9 Connecticut Smarter Balanced Grade 3 Math Practice Tests

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



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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# Connecticut, Start Your Nine-Round Math Map

A careful Grade 3 quest from first try to confident finish

This book gives you nine chances to practice like a thoughtful Connecticut Smarter Balanced test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Connecticut has coastal towns, green river valleys, old mill paths, library corners, and school labs, where careful steps matter. Strong math follows that same idea: estimate what the question asks, choose a useful tool, show the work, and prove before moving on.

## Your Connecticut Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

**Nine rounds is not about rushing. It is about building a math habit that stays strong.**

## How to Use This Book

A nine-session routine for clear Connecticut review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

**Good rhythm:** Test one day, review the next day, then take the next test when your corrections feel clear. In Connecticut, that steady routine turns nine tests into one organized prep plan.



# What Is Inside the Nine Tests?

Mixed Grade 3 practice with Smarter Balanced support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Connecticut standards reference and standard-code boxes in explanations

**Why mixed practice helps:** Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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& answers

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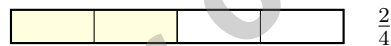
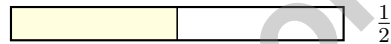
1) Lily colors  $\frac{4}{6}$  of a poster red. Which fraction shows the SAME amount?

- A.  $\frac{4}{8}$   
 B.  $\frac{3}{4}$

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

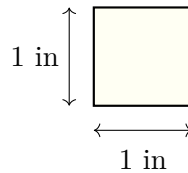
2) Look at the pattern 2, 4, 6, 8, 10. What is the next number? Explain why.

3) Look at the bars. Are  $\frac{1}{2}$  and  $\frac{2}{4}$  equivalent?



- A. Yes, they are equivalent  
 B. No, they are not equivalent  
 C. The first is larger  
 D. The second is larger

4) Which measurement describes a unit square in inches?



- A. Side length 2 inches, area 2 square inches  
 B. Side length 1 inch, area 1 square inch  
 C. Side length 1 inch, area 2 square inches  
 D. Side length 2 inches, area 4 square inches



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5) What number makes the equation true?

$$\square \div 5 = 8$$

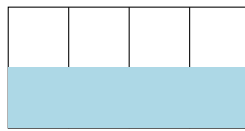
A. 50

C. 45

B. 35

D. 40

6) Look at the rectangle divided into 8 equal parts. Which fraction in eighths describes the shaded part?



A.  $\frac{1}{8}$

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

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

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

7) Which fraction equals 1 whole?

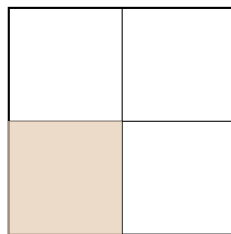
A.  $\frac{2}{4}$

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

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

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

8) A square chocolate bar is divided equally into 4 parts. Ben eats  $\frac{1}{4}$  of the bar. How many parts does Ben eat?



A. 1 part

C. 3 parts

B. 2 parts

D. 4 parts

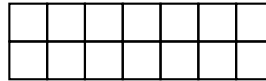


9) Which fraction is EQUAL to  $\frac{1}{2}$  on a number line with 6 equal parts?



- A.  $\frac{2}{6}$                        C.  $\frac{4}{6}$   
 B.  $\frac{3}{6}$                        D.  $\frac{5}{6}$

10) Look at this grid:



The area is:

- A. 9 sq units                       C. 16 sq units  
 B. 14 sq units                       D. 18 sq units
- 11) A garden has 4 rows of flowers. Each row has 7 flowers. How many flowers are in the garden?
- A. 24 flowers                       C. 32 flowers  
 B. 11 flowers                       D. 28 flowers
- 12) Let  $r$  be the unknown. A book has 64 pages. It is divided equally into 8 chapters. If you read 3 chapters, how many pages have you read?
- A. 16                                   C. 20  
 B. 18                                   D. 24



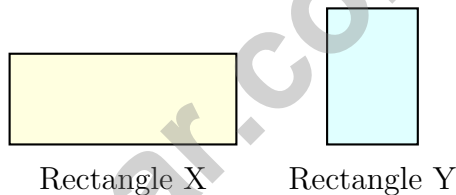
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1) Which description does NOT clearly show equal groups for multiplication?

- A. Four groups of three objects each       C. Six columns of two dots each  
 B. Two rows of nine stars each       D. Counting by ones from 0 to 10

2) Find  $4 \times (5 + 3)$ .

3) Look at two rectangles side by side. Rectangle X covers more unit squares than Rectangle Y. What can you say about them?

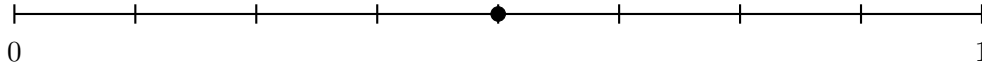


- A. Rectangle X has a greater area       C. They have the same area  
 B. Rectangle Y has a greater area       D. Rectangle X is taller
- 4) Which shows a correct way to find the total area of an L-shaped figure?
- A. Multiply the length times the width once       C. Multiply the perimeter by 2  
 B. Break it into rectangles and add their areas       D. Count only the longest parts



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- 5) A number line from 0 to 1 is divided into 8 equal parts. How many parts from 0 to  $\frac{4}{8}$ ?



- A. 2 parts                       C. 4 parts  
 B. 3 parts                       D. 5 parts
- 6) Eli ate  $\frac{1}{3}$  of a pizza. Write an equivalent fraction that has 6 as the denominator.

- 7) Sam starts his homework at 3 : 20 PM. He finishes at 3 : 55 PM. How many minutes did Sam spend on homework?
- A. 30 minutes                       C. 40 minutes  
 B. 35 minutes                       D. 20 minutes
- 8) What number makes the equation true?

$$63 \div \square = 7$$

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





5) What is  $80 \div 8$ ?

A. 8

C. 10

B. 9

D. 12

6) How many whole units does the shaded bar show?

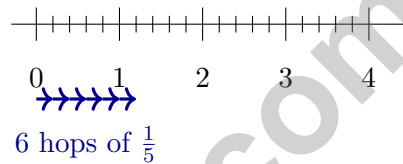


A. 1

C. 6

B. 3

D. 2



7)

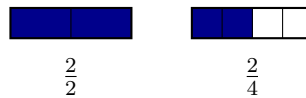
A frog makes 6 equal hops of size  $\frac{1}{5}$  on a number line divided into fifths. Where does the frog land after 6 hops?

A. At  $\frac{1}{5}$

C. At 1

B. At  $\frac{6}{5}$  (between 1 and 2)

D. At  $\frac{5}{6}$



8)

Which symbol makes this true?  $\frac{2}{4}$  \_\_\_\_\_  $\frac{2}{2}$

A. <

C. =

B. >

D.  $\neq$



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## Practice Test Answer Keys

**How to use this section with a Grade 3 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.** **(3.NF.A.3a)**  $\frac{4}{6} = \frac{2}{3}$  because both represent two-thirds of the poster.
- 2) **The correct answer is 12.** **(3.OA.D.9)** The difference between consecutive numbers is always 2:  $2 + 2 = 4$ ,  $4 + 2 = 6$ , and so on. So  $10 + 2 = 12$ .
- 3) **Choice A is correct.** **(3.NF.A.3)** Both bars show the same amount shaded.  $\frac{1}{2}$  and  $\frac{2}{4}$  are equal.
- 4) **Choice B is correct.** **(3.MD.C.5a)** A unit square always has a side length of 1 unit and area of 1 square unit, so 1 inch by 1 inch gives area 1 square inch.
- 5) **Choice D is correct.** **(3.OA.A.4)** Use the inverse:  $8 \times 5 = 40$ , so  $40 \div 5 = 8$ .
- 6) **Choice C is correct.** **(3.NF.A.3b)** The rectangle has 8 equal parts and 4 are shaded, so the shaded fraction written in eighths is  $\frac{4}{8}$ .
- 7) **Choice B is correct.** **(3.NF.A.3c)** When numerator = denominator, the fraction equals 1 whole.  $\frac{3}{3} = 1$ .
- 8) **Choice A is correct.** **(3.G.A.2)**  $\frac{1}{4}$  of a bar divided into 4 equal parts is 1 part.
- 9) **Choice B is correct.** **(3.NF.A.2)**  $\frac{3}{6}$  and  $\frac{1}{2}$  mark the same point: the middle of the line.
- 10) **Choice B is correct.** **(3.MD.C.5b)**  $7 \times 2 = 14$  square units.
- 11) **Choice D is correct.** **(3.OA.A.1)** 4 rows with 7 flowers each means 4 groups of 7. So  $4 \times 7 = 28$  flowers.
- 12) **Choice D is correct.** **(3.OA.D.8)** Step 1: Pages per chapter:  $64 \div 8 = 8$  pages. Step 2: Pages read:  $3 \times 8 = 24$  pages.
- 13) **Choice C is correct.** **(3.MD.A.2)** Multiply:  $3 \times 200 = 600$  mL.
- 14) **The correct answer is  $\frac{1}{2}$ .** **(3.NF.A.3d)** With the same numerator, the smaller denominator makes the larger fraction.
- 15) **Choice B is correct.** **(3.MD.C.6)**  $3 \times 6 = 18$  sq ft. The other choices do not equal 18.
- 16) **Choice A is correct.** **(3.OA.A.2)**  $10 \div 2 = 5$ . The picture shows 10 items split into 2 equal groups of 5 each.
- 17) **Choices A and B are correct.** **(3.OA.B.6)** A and B are correct because they show the two division facts from  $7 \times 8 = 56$ . C is false because  $72 \div 9 = 8$ , not 7. D is false because  $20 \div 5 = 4$  and  $5 \div 20$  is not a whole number; they are different. E is partially true but is a distractor because it doesn't test understanding of the inverse relationship.
- 18) **Choice A is correct.** **(3.NBT.A.2)** Ones:  $4 + 6 = 10$  (write 0, carry 1). Tens:  $5 + 8 + 1 = 14$  (write 4, carry 1). Hundreds:  $3 + 1 + 1 = 5$ . Answer: 540.
- 19) **Choice D is correct.** **(3.MD.B.3)** Pile 1:  $4 \times 3 = 12$ . Pile 2:  $5 \times 3 = 15$ . Total:  $12 + 15 = 27$ .
- 20) **Choice B is correct.** **(3.NBT.A.3)** The chart shows 6 tens and 0 ones, which is  $6 \times 10 = 60$ .
- 21) **Choice D is correct.** **(3.MD.B.4)** The largest count is 4 X's at  $1\frac{1}{2}$  ounces. Some marks have 0 X's. The difference is  $4 - 0 = 4$ .
- 22) **The correct answer is 21 square feet.** **(3.MD.C.7)**  $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$ , which matches  $7 \times 3 = 21$  square feet.
- 23) **Choice C is correct.** **(3.MD.C.7b)** Area = length  $\times$  width =  $4 \times 6 = 24$  square inches.
- 24) **Choice D is correct.** **(3.OA.C.7)** If  $8 \times 8 = 64$ , then  $64 \div 8 = 8$ . Multiplication and division are related.
- 25) **Choice C is correct.** **(3.MD.C.5)** The rectangle is 4 units wide and 3 units tall.  $4 \times 3 = 12$  square units.
- 26) **Choice C is correct.** **(3.MD.C.7d)** When a composite shape is divided into non-overlapping rectangles, the total area equals the sum of the individual rectangle areas. Here:  $12 + 15 = 27$  square units.
- 27) **Choice A is correct.** **(3.NF.A.1)** The circle is divided into 4 equal parts. One part is shaded, so the unit fraction is  $\frac{1}{4}$  (one-fourth).
- 28) **Choice C is correct.** **(3.NF.A.2b)** Point N is at 3 on a number line from 0 to 4. The fraction is  $\frac{3}{4}$ .
- 29) **Choice A is correct.** **(3.MD.A.1)** From 10 : 25 to 11 : 25 is 60 minutes. The game ends at 11 : 20, which is 5 minutes earlier:  $60 - 5 = 55$  minutes. Distractor C (off-by-10), distractor B (confusion with minutes only).
- 30) **Choice B is correct.** **(3.NF.A.2a)** Four equal parts on the number line give unit fraction  $\frac{1}{4}$ .



## Hi, Math Inventor!

◇ 9 practice tests. 9 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

### Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

**Inventor tip:** on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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 Inventor

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- ✓ And More!



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Aligned to Standards



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