

6

Connecticut

Smarter Balanced

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 Connecticut Smarter Balanced Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Connecticut Smarter Balanced. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Connecticut brings coastal towns, old mills, school labs, and green river valleys. Strong math uses that same care: read the task, select a strategy, build the solution, and build a neat plan before answering.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Connecticut students, each lab is a short route through coastal towns, old mills, school labs, and green river valleys: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Connecticut Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Connecticut Smarter Balanced path.

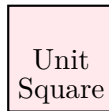


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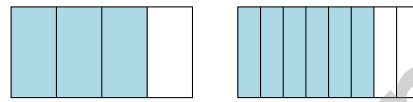
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1) Which is true about a unit square?



- A. All sides are different lengths C. It has area equal to its perimeter
 B. All sides are 1 unit long and all angles are right angles D. It can be any shape as long as area is 1

2) Look at the two rectangles. Do they show equivalent fractions?



Rectangle 1: $\frac{3}{4}$ Rectangle 2: $\frac{6}{8}$

- A. Yes, they are equivalent C. It is unclear
 B. No, they are not equivalent D. No, Rectangle 1 is larger
- 3) Sasha reads 9 pages of a book each day. After 5 days, how many pages has Sasha read?
- A. 40 pages C. 14 pages
 B. 54 pages D. 45 pages
- 4) A number line from 0 to 1 is divided into 2 equal parts. What fraction is at the first tick?



9) A runner drove 268 miles on Monday and 305 miles on Tuesday. She estimates the total distance by rounding each number to the nearest hundred. What is her estimate?

A. 500 miles

C. 700 miles

B. 800 miles

D. 600 miles

10) Noah goes to the park. He arrives at 3 : 34 PM and leaves at 4 : 19 PM. How long does Noah stay at the park?

A. 35 minutes

C. 45 minutes

B. 40 minutes

D. 50 minutes

11) There are 4 rows of apples. Each row has 10 apples. How many apples are there?



$$4 \times 10 = ?$$

A. 14

C. 410

B. 401

D. 40

12) Ben has 72 marbles. He puts them into bags with 8 marbles in each bag. Which division equation can be used to find how many bags he fills?

A. $72 \div 8 = \square$

C. $72 - 8 = \square$

B. $8 \times \square = 72$

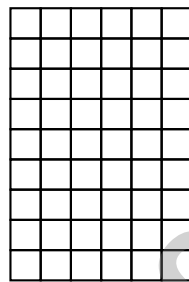
D. $72 + 8 = \square$



- 1) A line plot shows rainfall amounts in inches: $1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}, 2$. If there are 2 days with 1 inch, 3 days with $1\frac{1}{4}$ inches, 2 days with $1\frac{1}{2}$ inches, and 1 day with $1\frac{3}{4}$ inches, how many days had 2 inches if the total is 10 days?

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

- 2) A rectangular playground is 6 unit squares wide and 9 unit squares long. Look at the grid:



How many unit squares cover the playground?

- A. 15 unit squares (just one row and column) C. 48 unit squares
 B. 54 unit squares D. 72 unit squares



Diagonal of a square

3)

The diagonal of a square is drawn. What shape is created on each side of the diagonal?

- A. Rectangle C. Triangle
 B. Square D. Pentagon



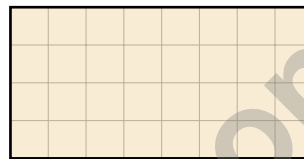
4) What is 9×30 ?

- A. 27 (forgot to add zero) C. 270
 B. 2700 (added two zeros) D. 39 (added instead of multiplying)

5) Which comparison is true?

- A. $\frac{3}{2} > \frac{3}{3}$ C. $\frac{3}{2} = \frac{3}{3}$
 B. $\frac{3}{2} < \frac{3}{3}$ D. $\frac{3}{3} > \frac{3}{2}$

6) This shape is made of unit squares on a grid.



Count all the unit squares. What is the area?

- A. 12 sq units C. 32 sq units
 B. 24 sq units D. 36 sq units

7) A bottle holds 2000 milliliters of juice. A glass holds about 250 milliliters. Which is the BEST estimate of how many glasses can be filled from the bottle?

- A. 2 C. 8
 B. 4 D. 12

□□□□

□□□□

□□□□

8)

What repeated addition matches this array?

- A. $4 + 3 + 3 = 10$ C. $3 + 4 = 7$
 B. $3 + 3 + 3 = 9$ D. $4 + 4 + 4 = 12$



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6) A bar graph shows toy cars. The scale shows 10 cars per unit. Eli's bar is 2 units tall. How many cars does Eli have?

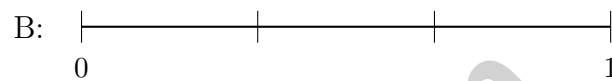
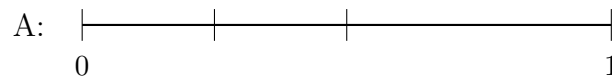
A. 12

C. 30

B. 20

D. 40

7) Which number line correctly divides from 0 to 1 into 3 equal parts?



A. Option A

C. Neither

B. Option B

D. Both

8) A student starts eating lunch at 11 : 38 AM. Recess starts at 12 : 04 PM. How many minutes until recess?



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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 B is correct.** **(3.MD.C.5a)** A unit square is defined as a square with side length exactly 1 unit, so all four sides are equal (1 unit each) and all four corners are right angles.
- 2) **Choice A is correct.** **(3.NF.A.3b)** Both rectangles show the same shaded area. $\frac{3}{4} = \frac{6}{8}$ because $\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$.
- 3) **Choice D is correct.** **(3.OA.A.1)** 5 days with 9 pages each day means 5 groups of 9. So $5 \times 9 = 45$ pages.
- 4) **The correct answer is $\frac{1}{2}$.** **(3.NF.A.2a)** The first tick is halfway, or $\frac{1}{2}$.
- 5) **Choice D is correct.** **(3.NBT.A.1)** The point is at position 1 on the line from 0 to 10, representing a number like 8–14 closer to 10.
- 6) **The correct answer is 0 right angles.** **(3.G.A.1)** A trapezoid can have no right angles.
- 7) **Choice A is correct.** **(3.NF.A.2b)** Point F at 4 on a halves-divided line is the 8th half-mark: $\frac{8}{2} = 4$.
- 8) **Choice B is correct.** **(3.NF.A.3d)** The dot is positioned at the third quarter mark on the number line, which is $\frac{3}{4}$. This is greater than $\frac{1}{2}$.
- 9) **Choice D is correct.** **(3.NBT.A.2)** Round 268 to the nearest hundred: 300 (since $268 > 250$). Round 305 to the nearest hundred: 300. Estimate: $300 + 300 = 600$ miles. (Exact answer: 573 miles.)
- 10) **Choice C is correct.** **(3.MD.A.1)** From 3 : 34 to 4 : 34 is 1 hour or 60 minutes. From 4 : 19 to 4 : 34 is 15 minutes. So from 3 : 34 to 4 : 19 is $60 - 15 = 45$ minutes.
- 11) **Choice D is correct.** **(3.NBT.A.3)** The array shows 4 rows with 10 apples each: $4 \times 10 = 40$ apples.
- 12) **Choice A is correct.** **(3.OA.A.4)** To find the number of bags, divide the total marbles by the marbles in each bag: $72 \div 8 = 9$.
- 13) **Choice B is correct.** **(3.MD.B.4)** Subtract: $5 - 3 = 2$ more twigs are 4 inches long.
- 14) **Choice B is correct.** **(3.NF.A.2)** $\frac{1}{2}$ is one out of two equal parts, which is the middle tick mark.
- 15) **Choice C is correct.** **(3.OA.D.9)** Add 7 to 49 to get 56. Multiples of 7 always increase by 7.
- 16) **Choices A, B, and C are correct.** **(3.MD.C.6)** Strategies A, B, and C all use repeated addition (skip-counting) to count all 15 unit squares. D counts only one row, and E adds the sides (which is perimeter, not area).
- 17) **Choice A is correct.** **(3.MD.C.5)** Area is the amount of space inside a flat shape, measured in square units.
- 18) **Choice A is correct.** **(3.OA.A.3)** Divide: $63 \div 9 = 7$ groups.
- 19) **Choice C is correct.** **(3.MD.C.7d)** One part: $10 \times 2 = 20$ sq units. Other part: $4 \times 3 = 12$ sq units. Total: $20 + 12 = 32$ sq units.
- 20) **Choice B is correct.** **(3.OA.D.8)** Step 1: Add: $12 + 8 = 20$ cookies. Step 2: Subtract: $20 - 6 = 14$ cookies. (Choice C is step 1 only; choice A ignores new cookies.)
- 21) **Choice C is correct.** **(3.MD.C.7c)** $2 \times (9 + 1) = 2 \times 10 = 20$ or $(2 \times 9) + (2 \times 1) = 18 + 2 = 20$.
- 22) **Choice C is correct.** **(3.NF.A.3)** $\frac{1}{2}$, $\frac{3}{6}$, and $\frac{2}{4}$ are all equivalent. $\frac{1}{8}$ is much smaller and not equivalent.
- 23) **Choice D is correct.** **(3.OA.A.2)** Measurement division finds how many groups. Divide the total by the group size.
- 24) **Choice B is correct.** **(3.G.A.2)** $\frac{1}{6}$ of a rectangle divided into 6 parts means shading 1 part.
- 25) **The correct answer is 15.** **(3.OA.B.5)** $3 \times 5 = 15$.
- 26) **Choice A is correct.** **(3.MD.C.7b)** Area = width \times height, so $72 = 8 \times \text{height}$. Therefore, height = $72 \div 8 = 9$ inches. Choice B (80) adds area and width; C (64) is area minus width; D (10) is a common computation error.
- 27) **Choice B is correct.** **(3.OA.C.7)** A fact family uses the same three numbers in multiplication and division. Only choice B has a true related fact: $4 \times 6 = 24$ and $24 \div 4 = 6$.
- 28) **Choice D is correct.** **(3.NF.A.3a)** $\frac{2}{4}$ and $\frac{4}{8}$ are equivalent because both show one-half of the bar shaded. When denominator doubles, the numerator also doubles to maintain the same-size region.
- 29) **Choice B is correct.** **(3.MD.A.2)** Subtract: $600 - 400 = 200$ g.
- 30) **Choice A is correct.** **(3.NF.A.1)** Picture A shows a rectangle divided into 2 equal parts with 1 part shaded, which is $\frac{1}{2}$.



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From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 6 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

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This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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