

3

Connecticut

Smarter Balanced

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



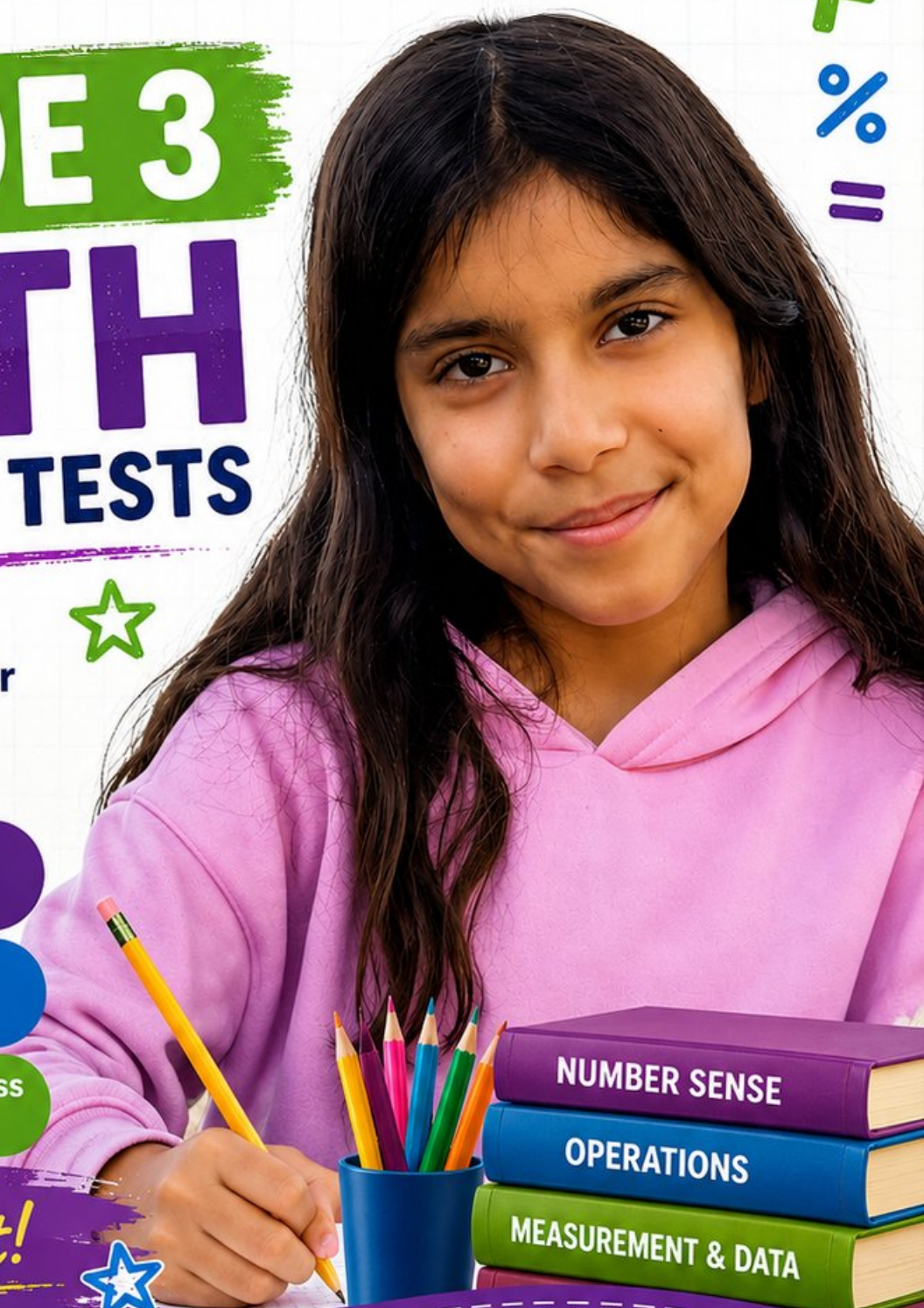
Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

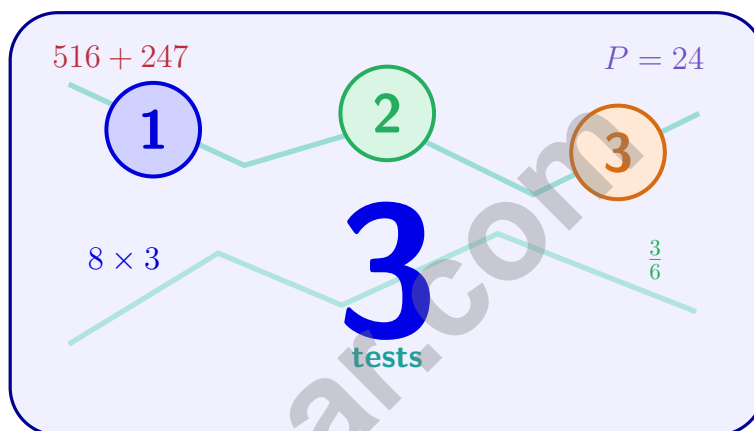


Be Ready.
Do Your Best!



3 Connecticut Smarter Balanced Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, Connecticut Smarter Balanced strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the Connecticut Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the Connecticut Smarter Balanced. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Connecticut Smarter Balanced asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong Smarter Balanced work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



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Table of Contents

★ Practice Test 1	_____	17
★ Practice Test 2	_____	28
★ Practice Test 3	_____	39
Practice Test Answer Keys	_____	51
Practice Test Answers and Explanations	_____	54

- 6) Mia tiles a rectangle that is 3 tiles wide and 6 tiles tall. Jordan tiles a rectangle that is 2 tiles wide and 9 tiles tall. Whose rectangle has a bigger area?
- A. Mia's rectangle
 B. Jordan's rectangle
 C. They have the same area
 D. Cannot tell from this information
- 7) An L-shaped field is divided by a dashed line. The top rectangle is 6 units by 4 units. The bottom rectangle is 5 units by 3 units. What is the total area?
- A. 24 sq units
 B. 39 sq units
 C. 15 sq units
 D. 360 sq units
- 8) Which is NOT equivalent to $\frac{1}{2}$?
- A. $\frac{2}{4}$
 B. $\frac{3}{6}$
 C. $\frac{2}{6}$
 D. $\frac{4}{8}$
- 9) Eli drinks juice from a bottle. The bottle contained 1 liter. After he drinks some, 300 mL remains. How much juice did he drink?
- A. 300 mL
 B. 500 mL
 C. 700 mL
 D. 1000 mL
- 10) A room is shaped like a rectangle. It is 6 meters long and 5 meters wide. What is the area of the room?
- A. 30 sq m
 B. 22 sq m
 C. 11 sq m
 D. 36 sq m
- 11) A number line from 0 to 1 shows a unit fraction of $\frac{1}{4}$. How many of these unit fractions fit from 0 to 1?
- A. 1
 B. 2
 C. 3
 D. 4



12) Which expression means the same as 4×5 ?

- A. $4 + 5$
 C. 5 more than 4
 B. 4 more than 5
 D. 4 groups of 5

13) Which fraction is equivalent to $\frac{1}{3}$?

- A. $\frac{2}{4}$
 C. $\frac{2}{6}$
 B. $\frac{2}{8}$
 D. $\frac{3}{8}$

14) Select the **TWO** correct answers. Which pictures show a unit fraction?



- A. Picture A
 B. Picture B
 C. Picture C
 D. Picture D

15) Look at this table:

$3 \times 9 = 27$	$9 \times 3 = 27$
$27 \div 3 = 9$	$27 \div 9 = 3$

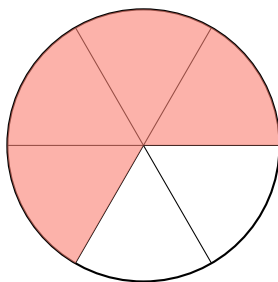
Which equation does NOT belong in this fact family?

- A. $27 \div 3 = 9$
 C. $3 \times 9 = 27$
 B. $9 \times 3 = 27$
 D. $27 \div 6 = 4$



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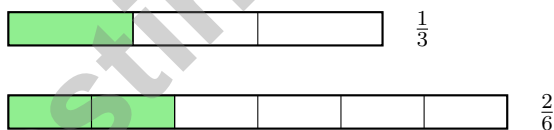
- 1) A circle is divided into 6 equal parts. Four parts are shaded. What fraction of the circle is shaded?



- A. $\frac{2}{6}$
 C. $\frac{1}{6}$
 B. $\frac{4}{6}$
 D. $\frac{6}{6}$
- 2) Sara buys 3 packs of pencils with 7 pencils each and 4 packs of pens with 2 pens each. How many writing items does she buy in total?

- A. 21
 C. 25
 B. 23
 D. 29

- 3) Which fraction is equivalent to $\frac{1}{3}$?



- A. $\frac{2}{6}$
 C. $\frac{3}{4}$
 B. $\frac{2}{4}$
 D. $\frac{1}{4}$
- 4) A line plot shows water bottle volumes in milliliters: 250, 250 $\frac{1}{2}$, 251, 251 $\frac{1}{2}$, 252 (using halves for simplicity in Grade 3 scale). There are 2 X's at 250 mL. How many more X's would we need at 250 $\frac{1}{2}$ to make the total 9 if the others have 1 X each?

- A. 2
 C. 4
 B. 3
 D. 5

5) What is 8×7 ?

A. 48

C. 56

B. 54

D. 63

6) Round 476 to the nearest 100.

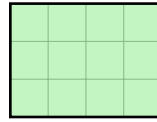
A. 400

C. 475

B. 470

D. 500

7) This grid shows a shape made of unit squares.



What is the area?

A. 12 sq units

C. 14 sq units

B. 10 sq units

D. 7 sq units

8) A classroom is shaped like an L. One part is 8 units by 3 units. The other part is 5 units by 2 units. What is the total area of the classroom?



9) Which shows how many unit fractions of $\frac{1}{3}$ are needed to make a whole?

A. 1 unit fraction

C. 3 unit fractions

B. 2 unit fractions

D. 6 unit fractions



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- 1) At what time does the hour hand and minute hand point straight up on a clock?
- A. 3 : 00 C. 9 : 00
 B. 6 : 00 D. 12 : 00
- 2) A rectangular field is 9 meters long and 5 meters wide. How many square meters is the field?
- A. 14 square meters C. 40 square meters
 B. 45 square meters D. 28 square meters
- 3) There are 9 students with 4 crayons each. How many crayons total?



- 4) What is $45 \div 5$?
- A. 8 C. 10
 B. 11 D. 9
- 5) Two identical rectangles are divided into equal parts. Rectangle 1 has 2 parts shaded out of 3 total. Rectangle 2 has 4 parts shaded out of 6 total. Is the shaded amount the same?
- A. It depends on the rectangle size. C. Yes, both show the same amount.
 B. No, Rectangle 2 shows more. D. No, Rectangle 1 shows more.
- 6) A unit square measures 1 centimeter by 1 centimeter. How many unit squares are needed to cover a 5 cm by 4 cm rectangle?
- A. 9 unit squares C. 20 unit squares
 B. 18 unit squares D. 25 unit squares



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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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(3.NF.A.3d)** Four fourths equals 1. Four halves equals 2. Since $1 < 2$, we have $\frac{4}{4} < \frac{4}{2}$.
- 2) **Choice C is correct.** **(3.MD.B.4)** 56 inches or taller includes 56 and $56\frac{1}{2}$: that is $3 + 2 = 5$ students.
- 3) **Choice D is correct.** **(3.OA.D.9)** The cost goes up by \$5 each time. Five toys cost $5 \times 5 = \$25$.
- 4) **Choice D is correct.** **(3.OA.B.6)** $24 \div 4 = \square$ means $\square \times 4 = 24$. Since $6 \times 4 = 24$, each shelf has 6 books.
- 5) **The correct answer is 8 equal parts.** **(3.G.A.2)** Eighths mean there are 8 equal parts.
- 6) **Choice C is correct.** **(3.MD.C.7a)** Mia: $3 \times 6 = 18$ square units. Jordan: $2 \times 9 = 18$ square units. Different dimensions, same area—shows that tiling result depends on both dimensions, not just one.
- 7) **Choice B is correct.** **(3.MD.C.7d)** Top rectangle: $6 \times 4 = 24$ sq units. Bottom rectangle: $5 \times 3 = 15$ sq units. Total: $24 + 15 = 39$ sq units.
- 8) **Choice C is correct.** **(3.NF.A.3b)** $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$. But $\frac{2}{6}$ simplifies to $\frac{1}{3}$, not $\frac{1}{2}$.
- 9) **Choice C is correct.** **(3.MD.A.2)** 1 L = 1000 mL. Subtract: $1000 - 300 = 700$ mL drunk.
- 10) **Choice A is correct.** **(3.MD.C.7)** Area = $6 \times 5 = 30$ square meters.
- 11) **Choice D is correct.** **(3.NF.A.2a)** Exactly 4 copies of $\frac{1}{4}$ fit in the interval from 0 to 1.
- 12) **Choice D is correct.** **(3.OA.A.1)** 4×5 means “4 groups of 5” (or $5 + 5 + 5 + 5$). Each group has 5 objects, and there are 4 groups.
- 13) **Choice C is correct.** **(3.NF.A.3)** $\frac{1}{3}$ and $\frac{2}{6}$ both equal one-third of a whole.
- 14) **Choices A and C are correct.** **(3.NF.A.1)** A unit fraction has a numerator of exactly 1. Picture A is divided into 2 equal parts with 1 shaded = $\frac{1}{2}$ (unit fraction). Picture C is divided into 3 equal parts with 1 shaded = $\frac{1}{3}$ (unit fraction). Picture B shows $\frac{2}{5}$ (numerator is 2), and Picture D shows $\frac{3}{5}$ (numerator is 3), so neither B nor D is a unit fraction.
- 15) **Choice D is correct.** **(3.OA.A.4)** The fact family uses the numbers 3, 9, and 27. The equation $27 \div 6 = 4$ uses 6, which is not in this fact family.
- 16) **Choice B is correct.** **(3.MD.C.7c)** The rectangle has width 5 and combined height $2 + 2 = 4$, so $5 \times (2 + 2) = 20$.
- 17) **Choice B is correct.** **(3.MD.B.3)** Blue: $5 \times 2 = 10$ ribbons. Red: $3 \times 2 = 6$ ribbons. More: $10 - 6 = 4$.
- 18) **Choice A is correct.** **(3.NBT.A.1)** The ones digit is 4. Since $4 < 5$, round down: 804 rounds to 800.
- 19) **Choice D is correct.** **(3.NBT.A.3)** Multiply $9 \times 8 = 72$, then multiply by 10 to get 720: $9 \times 80 = (9 \times 8) \times 10 = 72 \times 10 = 720$.
- 20) **Choice A is correct.** **(3.NF.A.2)** From 0 to $\frac{1}{4}$ is exactly one of the four equal parts, so it is $\frac{1}{4}$ of the whole line.
- 21) **The correct answer is 40 sq units.** **(3.MD.C.6)** Students should show understanding of skip-counting or repeated addition. Both row-counting and column-counting are valid strategies.
- 22) **Choice B is correct.** **(3.MD.D.8)** Perimeter = $2\ell + 2w = 2(8) + 2(5) = 16 + 10 = 26$ cm.
- 23) **Choice A is correct.** **(3.OA.A.3)** Multiply: 7 rows \times 3 plants per row = 21 plants.
- 24) **Choice A is correct.** **(3.G.A.1)** A rectangle has two pairs of parallel sides: the top and bottom sides are parallel, and the left and right sides are parallel to each other.
- 25) **Choice D is correct.** **(3.OA.B.5)** The commutative property lets you switch factors. So $5 \times 8 = 8 \times 5 = 40$.
- 26) **Choice B is correct.** **(3.MD.C.5b)** $12 \times 2 = 24$ square units.
- 27) **Choice A is correct.** **(3.OA.A.2)** Measurement division: Divide 24 by 3 to find how many groups of 3 fit in 24. The answer is 8 groups.
- 28) **The correct answer is 6.** **(3.OA.C.7)** $54 \div 9 = 6$ because $6 \times 9 = 54$.
- 29) **Choice A is correct.** **(3.NBT.A.2)** Ones: $3 + 8 = 11$ (write 1, carry 1). Tens: $9 + 5 + 1 = 15$ (write 5, carry 1). Hundreds: $2 + 1 + 1 = 4$. Answer: 451.
- 30) **Choice A is correct.** **(3.MD.C.5a)** Shape W is $2 \times 2 = 4$ unit squares. Shape X is $3 \times 1 = 3$ unit squares. Since $4 > 3$, Shape W has more unit squares.

Hi, Strong Climber!

◇ You climbed all 3 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

Guide's tip: on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

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

Jay Daie

Your Math Trail Guide

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. *Succeed* Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

What's Inside?



Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



Real-World Applications

Engaging problems that connect math to everyday life.



Step-by-Step Progress

Track improvement and build confidence with every test.



Build Skills & Boost Confidence

Strengthen understanding and feel prepared for test day.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



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PRACTICE. PREPARE. SUCCEED.