

7

Connecticut

Smarter Balanced

Grade 3 MATH

PRACTICE TESTS

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



7 Full-Length
Practice Tests



Standards-Aligned
Math Practice

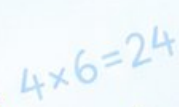


Detailed Answer Keys
and Explanations



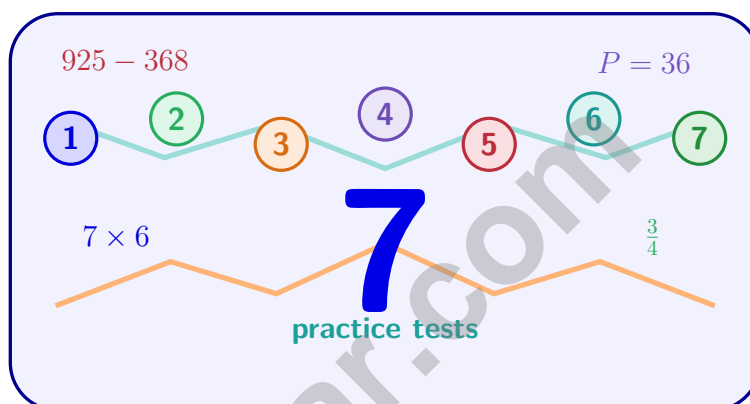
Build Confidence.
Achieve Success.

PREPARE
PRACTICE
SUCCEED



7 Connecticut Smarter Balanced Grade 3 Math Practice Tests

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



Seven complete 30-question practice trails 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 Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Connecticut Smarter Balanced. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Connecticut has coastal towns, green river valleys, old mill paths, library corners, and school labs, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and build a neat plan before answering.

Scout

Find what the problem is asking before you calculate.

Solve

Pick an equation, model, array, graph, or number line.

Prove

Check the answer and explain the thinking clearly.

Seven-trail promise: I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

How to Use This Book

A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Connecticut students, each trail moves through coastal towns, green river valleys, old mill paths, library corners, and school labs: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

Best review habit: A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.

What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
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.

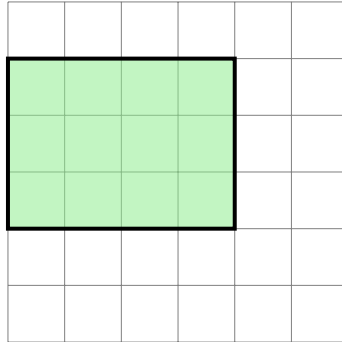


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For more practice & answers

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1) Look at the shaded region on the grid. Count all unit squares to find the area.



- A. 9 square units C. 10 square units
 B. 12 square units D. 15 square units

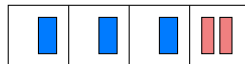
2) Which pair shows equivalent fractions?

- A. $\frac{1}{3}$ and $\frac{2}{3}$ C. $\frac{2}{6}$ and $\frac{1}{3}$
 B. $\frac{1}{4}$ and $\frac{3}{8}$ D. $\frac{3}{4}$ and $\frac{2}{3}$

3) Which statement correctly compares a square and a rectangle?

- A. Every rectangle is a square C. They are never related
 B. Every square is a rectangle D. A square has no parallel sides

4)

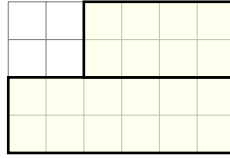


The bar model shows part of a subtraction problem. If the total is 523 and one part is 245, what is the other part?

- A. 278 C. 378
 B. 288 D. 268



- 5) This grid shows a step-shaped figure made of unit squares. Count by breaking it into parts.



How many unit squares cover this step shape?

- A. 12 sq units C. 20 sq units
 B. 16 sq units D. 24 sq units
- 6) A bakery makes trays of cookies. The baker puts 5 cookies in each row and has 7 rows on one tray. How many cookies are on one tray?

- A. 35 C. 30
 B. 12 D. 2



7)

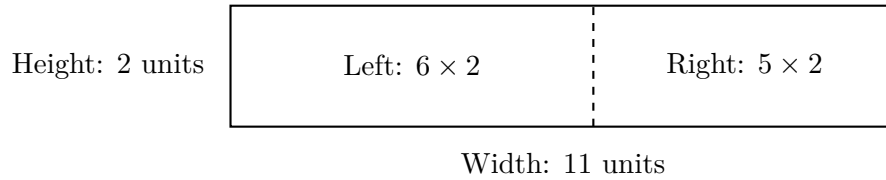
Which is true?

- A. $\frac{2}{4} < \frac{2}{6}$ C. $\frac{2}{4} = \frac{2}{6}$
 B. $\frac{2}{4} > \frac{2}{6}$ D. Cannot tell



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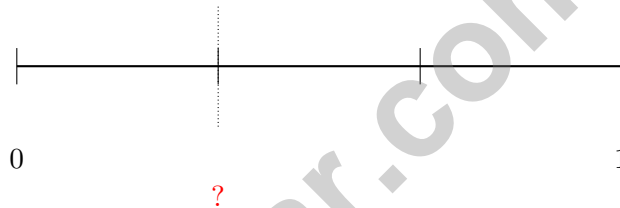
8) This shows a distributive property example:



What is the equation in distributive form?

- A. $2 \times (6 + 5) = 22$
- B. $(2 \times 6) + (2 \times 5) = 12 + 10 = 22$
- C. $6 + 5 = 11$
- D. $(6 \times 5) + (2) = 32$

9) A number line from 0 to 1 is divided into 3 equal parts. Where is $\frac{1}{3}$ located?



- A. At the first tick
- B. At the second tick
- C. At zero
- D. At one

10) Write a fraction equivalent to $\frac{3}{6}$.

1) Look at this part of the 2×2 multiplication table:

\times	1	2	3
2	2	4	6
4	4	8	12

Which pattern do you see in the row for 2?

- A. Goes up by 2 each time C. Goes up by 3 each time
 B. Goes up by 1 each time D. Goes up by 4 each time

2) 

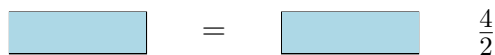
What multiplication does this show?

- A. $2 \times 10 = 20$ C. $3 \times 5 = 15$
 B. $5 \times 5 = 25$ D. $2 \times 5 = 10$

3) A bar graph shows students at two camps. Summer camp bar is 5 units (scale: 8), winter camp bar is 3 units (scale: 8). How many more at summer camp?

- A. 8 C. 24
 B. 16 D. 40

4) Look at the bar diagram. It shows $\frac{4}{2}$. What whole number does this equal?

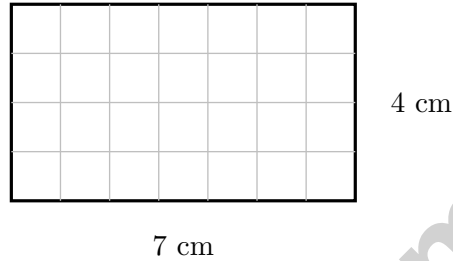


- A. 1 C. 3
 B. 2 D. 4



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5) If the unit fraction on a number line is $\frac{1}{8}$, how many such fractions fit from 0 to 1?



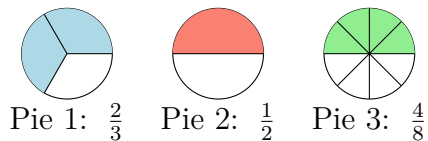
6)

Count the grid squares to find the area.

- | | |
|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> A. 11 sq cm | <input type="checkbox"/> C. 28 sq cm |
| <input type="checkbox"/> B. 22 sq cm | <input type="checkbox"/> D. 35 sq cm |

7) A rectangle has 8 equal parts. How many parts make $\frac{1}{2}$?

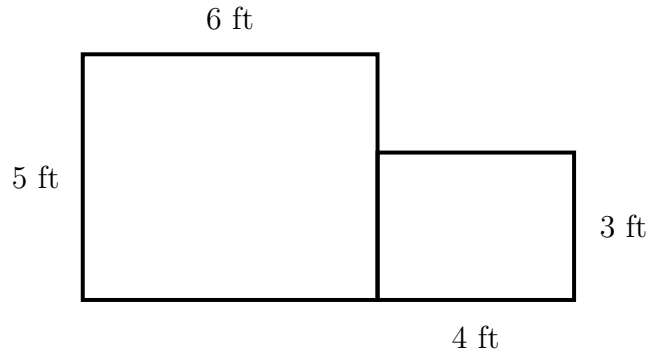
8) Which two pie charts show equivalent fractions?



- | | |
|--|--|
| <input type="checkbox"/> A. Pies 1 and 2 | <input type="checkbox"/> C. Pies 1 and 3 |
| <input type="checkbox"/> B. Pies 2 and 3 | <input type="checkbox"/> D. All three pies |



- 4) An L-shaped field is split by dashed lines. Left part: 6 ft by 5 ft. Right part: 4 ft by 3 ft. What is the total area?



- A. 30 sq ft C. 42 sq ft
 B. 12 sq ft D. 180 sq ft
- 5) Eli is filling a rectangular mat with colored unit square patches. The mat measures 11 units by 3 units. How many patches will he need?
- A. 14 patches C. 33 patches
 B. 27 patches D. 44 patches
- 6) Lily arranged 6 rows with 2 stickers in each row. How many stickers does she have?
- A. 8 C. 14
 B. 10 D. 12
- 7) A rectangle is partitioned into two parts with areas 21 and 12. Both share a width of 3. Which equation uses the distributive property to add the two smaller areas?
- A. $3 \times (7 + 4) = 3 \times 11 = 33$ C. $3 + 7 + 4 = 14$
 B. $3 \times (7 + 4) = (3 \times 7) + (3 \times 4) = 21 + 12 = 33$ D. $(7 \times 4) + (3) = 31$



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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

- Choice B is correct.** **(3.MD.C.5)** The shaded rectangle is 4 units wide and 3 units tall. $4 \times 3 = 12$ square units.
- Choice C is correct.** **(3.NF.A.3b)** Divide the numerator and denominator of $\frac{2}{6}$ by 2: $\frac{2 \div 2}{6 \div 2} = \frac{1}{3}$.
- Choice B is correct.** **(3.G.A.1)** A square has all the properties of a rectangle (4 sides, 4 right angles) plus the additional property of having all equal sides. So every square is a rectangle, but not every rectangle is a square.
- Choice A is correct.** **(3.NBT.A.2)** Subtract: $523 - 245 = 278$. Ones: $3 - 5$ requires regrouping, so $13 - 5 = 8$. Tens: $1 - 4$ requires regrouping, so $11 - 4 = 7$. Hundreds: $4 - 2 = 2$. Answer: 278.
- Choice C is correct.** **(3.MD.C.6)** Count bottom part: $6 \times 2 = 12$ squares. Count top-right part: $4 \times 2 = 8$ squares. Total: $12 + 8 = 20$ unit squares.
- Choice A is correct.** **(3.OA.A.3)** Multiply: 5 cookies per row \times 7 rows = 35 cookies per tray.
- Choice B is correct.** **(3.NF.A.3d)** Same numerator: fourths are bigger pieces than sixths. Two fourths is greater than two sixths.
- Choice B is correct.** **(3.MD.C.7c)** Add the two areas: $(2 \times 6) + (2 \times 5) = 12 + 10 = 22$ square units.
- Choice A is correct.** **(3.NF.A.2a)** The first tick mark on a number line with 3 equal parts is at $\frac{1}{3}$.
- The correct answer is $\frac{1}{2}$.** **(3.NF.A.3a)** $\frac{3}{6} = \frac{1}{2}$.
- Choice C is correct.** **(3.MD.C.7d)** Part 1: $6 \times 4 = 24$ sq m. Part 2: $3 \times 3 = 9$ sq m. Total: $24 + 9 = 33$ sq m.
- Choice D is correct.** **(3.OA.A.1)** The picture shows 5 columns with 2 circles in each column. So $5 \times 2 = 10$ or $2 \times 5 = 10$.
- Choice C is correct.** **(3.NBT.A.3)** 5×10 means 5 groups of 10, which is the same as adding 10 five times: $10 + 10 + 10 + 10 + 10 = 50$. This shows that multiplication is repeated addition.
- Choices A and B are correct.** **(3.NF.A.2)** $\frac{2}{6} = \frac{1}{3}$ because $\frac{2}{6}$ simplifies to $\frac{1}{3}$. They represent the same point, one-third of the way from 0 to 1. The other choices name different points.
- The correct answer is 20.** **(3.OA.D.9)** The row for 5 shows 10, 15, and then 20. Each number increases by 5 because we multiply 5 by 2, then 3, then 4. So $5 + 5 = 10 + 5 = 15 + 5 = 20$.
- Choice D is correct.** **(3.NBT.A.1)** In rounding, "look at the digit" means check its value to apply the rule: if it's 5 or more, round up; if less than 5, round down.
- Choice C is correct.** **(3.MD.C.7b)** Area = length \times width = $8 \times 5 = 40$ square meters.
- The correct answer is $\frac{2}{4}$.** **(3.NF.A.3)** $\frac{2}{4}$ shows the same amount as $\frac{1}{2}$.
- Choice D is correct.** **(3.OA.A.4)** Divide: $54 \div 9 = 6$. Check: $9 \times 6 = 54$.
- Choice C is correct.** **(3.MD.A.1)** From 4 : 05 to 5 : 05 is 1 hour. From 5 : 05 to 5 : 28 is 23 minutes. Total: 1 hour 23 minutes.
- Choice D is correct.** **(3.MD.A.2)** Add: $300 + 200 = 500$ mL.
- Choice D is correct.** **(3.OA.A.2)** $10 \div 5 = 2$. The picture shows 5 equal groups, each with 2 items.
- Choice D is correct.** **(3.OA.C.7)** $6 \times 7 = 42$. You can count by 7s: 7, 14, 21, 28, 35, 42.
- Choice A is correct.** **(3.MD.C.5b)** Rectangle 1: 3 columns and 4 rows = $3 + 3 + 3 + 3 = 12$ unit squares. Rectangle 2: 6 columns and 2 rows = $6 + 6 = 12$ unit squares. Rectangle 3: 5 columns and 3 rows = $5 + 5 + 5 = 15$ unit squares. Rectangles 1 and 2 both have an area of 12 square units.
- Choice B is correct.** **(3.MD.B.3)** Kat's bar is 4 units, which is tallest. $4 \times 5 = 20$ books, the most.
- Choice C is correct.** **(3.NF.A.3c)** $\frac{10}{2}$ means 10 halves. 2 halves make 1 whole, so $10 \div 2 = 5$ wholes.
- Choice D is correct.** **(3.OA.B.6)** Since $5 \times 9 = 45$, the missing factor is 5. In a fact family, the division $45 \div 9 = 5$ gives the same answer as the missing factor.
- Choice B is correct.** **(3.OA.D.8)** Step 1: Remaining boxes: $9 - 4 = 5$ boxes. Step 2: Crayons in remaining boxes: $5 \times 10 = 50$ crayons. (Choice C is the answer to step 1 multiplied by 12; choice D is step 1 error times 10.)
- Choice D is correct.** **(3.MD.C.7)** Area = rows \times columns = $4 \times 5 = 20$ square units.
- Choice C is correct.** **(3.MD.C.5a)** If the shape is covered by 9 unit squares, the total area is 9 square units.



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Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 7 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 7 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



EACH PRACTICE TEST INCLUDES:



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Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
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