

8

Colorado CMAS

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



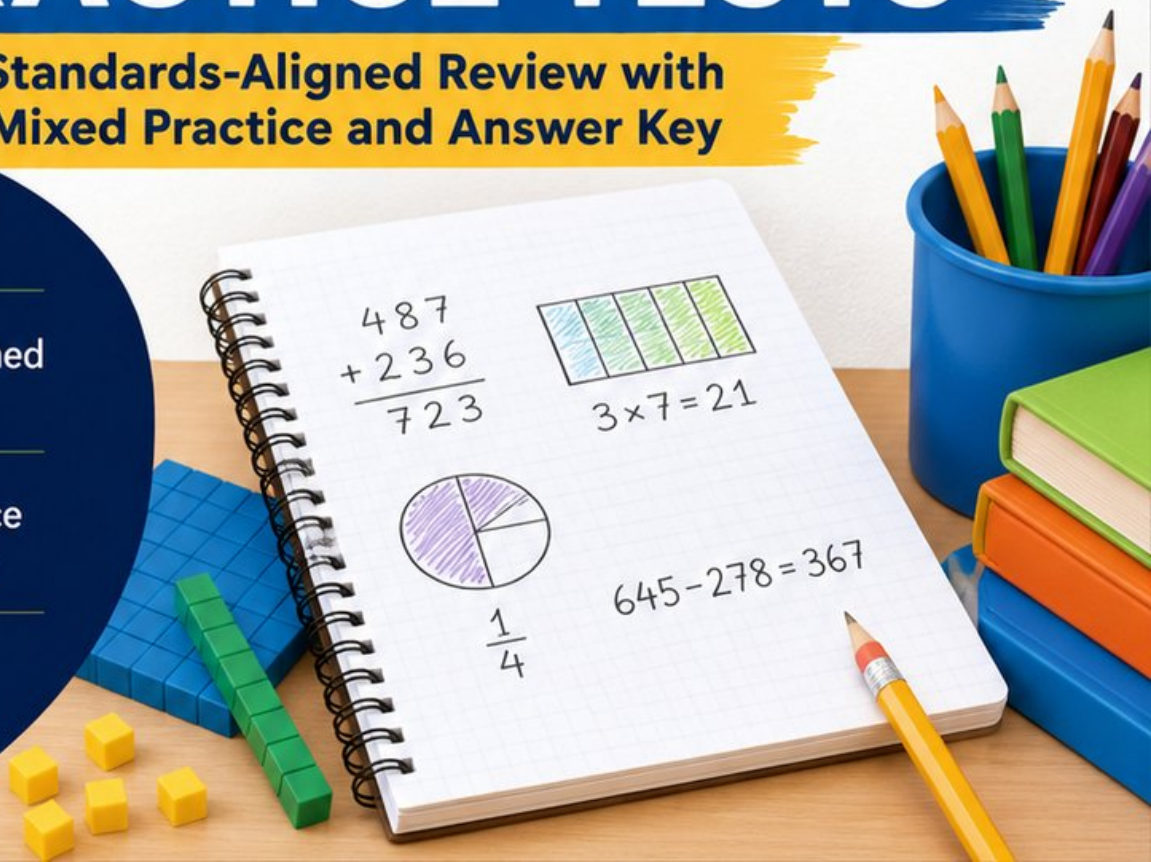
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Colorado CMAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Colorado, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Colorado CMAS. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Colorado has mountain passes, snowy peaks, prairie towns, fast rivers, and high-sky views, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and check direction and reasonableness as you work.

Your Colorado Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Colorado book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Colorado, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the CMAS

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Colorado focus: The practice path starts with mountain passes, snowy peaks, prairie towns, fast rivers, and high-sky views. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	28
★ Practice Test 3	_____	40
★ Practice Test 4	_____	52
★ Practice Test 5	_____	64
★ Practice Test 6	_____	75
★ Practice Test 7	_____	87
★ Practice Test 8	_____	101
Practice Test Answer Keys	_____	112
Practice Test Answers and Explanations	_____	117

1) Ben shares 32 cookies equally among 4 friends. How many cookies does each friend get?

A. 28

C. 9

B. 36

D. 8

2) All multiples of 5 end in 0 or 5. Look at: 5, 10, 15, 20, 25, 30.
Which number is NOT a multiple of 5?

A. 35

C. 50

B. 55

D. 42

3) A line plot shows book lengths in inches: 7 , $7\frac{1}{4}$, $7\frac{1}{2}$, $7\frac{3}{4}$, 8 . Measurements: 2 at 7 inches, 1 at $7\frac{1}{4}$ inches, 4 at $7\frac{1}{2}$ inches, 2 at $7\frac{3}{4}$ inches, and 1 at 8 inches. What is the range of book lengths?



Scan me!
For more practice
& answers

4) Here is a rectangle divided into equal parts horizontally.



The rectangle is divided into 4 equal parts. Two parts are shaded. What fraction is shaded?

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

- C. $\frac{3}{4}$
 D. $\frac{3}{8}$

5) Sofia buys packages of toy blocks. Each package has 20 blocks. She buys 6 packages. How many blocks does she have?

- A. 26
 B. 62

- C. 120
 D. 200

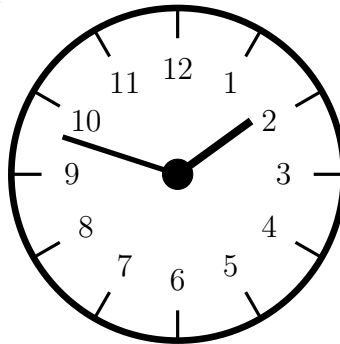
6) Which fraction is the same as $\frac{3}{6}$?

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

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



- 7) A tile floor has area 18 square feet. Which dimensions could make this area?
- A. 2 ft and 8 ft C. 4 ft and 5 ft
 B. 3 ft and 6 ft D. 4 ft and 6 ft
- 8) Lily is arranging unit square stickers on a rectangular poster. The poster is 9 units tall and 2 units wide. How many stickers will she use to cover it completely?
- A. 18 stickers C. 27 stickers
 B. 11 stickers D. 36 stickers
- 9) Which number sentence shows the distributive property?
- A. $7 \times 4 = 28$ C. $4 \times 7 = 7 \times 4$
 B. $(3 \times 2) \times 5 = 3 \times (2 \times 5)$ D. $7 \times (5 + 2) = 7 \times 5 + 7 \times 2$
- 10) A bakery puts 20 cupcakes into boxes of 5. How many boxes do they fill?
- A. 3 C. 5
 B. 100 D. 4
- 11) What time is shown on the clock?



- A. 9 : 08 C. 1 : 48
 B. 1 : 38 D. 10 : 48

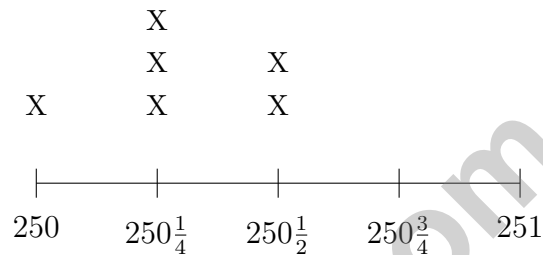


Scan me!
For more practice
& answers

1) Why do 9×2 and 2×9 have the same product?

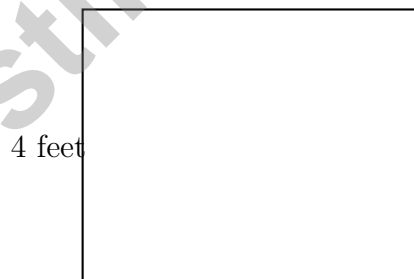
- A. They use different numbers C. They both equal 18
 B. Multiplication always works this way D. The commutative property lets us switch the order of factors

2) Lily's line plot shows water bottle volumes in milliliters: 250 , $250\frac{1}{4}$, $250\frac{1}{2}$, $250\frac{3}{4}$, 251 (using quarters).



How many bottles have a volume of $250\frac{1}{4}$ milliliters?

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

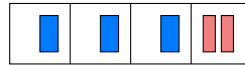


3)

A rectangular carpet measures 5 feet by 4 feet. What is the area?

- A. 9 sq ft C. 20 sq ft
 B. 18 sq ft D. 40 sq ft

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) Use the place-value chart. What is 6×10 ?

Tens	Ones
6	0

- A. 16 C. 610
 B. 60 D. 601

6) A 7×6 rectangle is shown with one dimension split. Which equation matches?

- A. $7 \times 6 = 7 \times (4+2) = (7 \times 4) + (7 \times 2) = 28 + 14 = 42$ C. $7 \times 6 = 7 + 6 + 4 + 2 = 19$
 B. $7 \times 6 = 6 \times (3+3) = 18 + 18$ D. $7 + 6 = 13$

7) On a number line from 0 to 1 divided into 4 equal parts, what fraction is at the second tick mark from 0?

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



Scan me!
For more practice
& answers

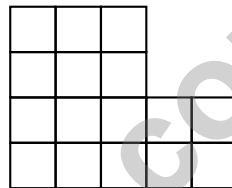
1) Lily starts a project at 7 : 29 AM. She works for 1 hour and 16 minutes. What time does she finish?

- A. 8 : 35 AM C. 8 : 45 AM
 B. 8 : 40 AM D. 9 : 00 AM

2) A piece of cloth is 7 inches by 5 inches. What is its area?

- A. 12 sq in C. 30 sq in
 B. 24 sq in D. 35 sq in

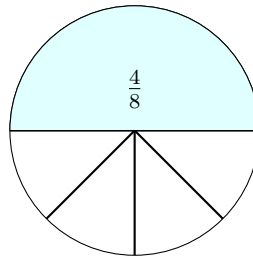
3) This composite figure is shaped like an "L" made of unit squares:



Count all the unit squares in this L-shaped figure. How many are there?

- A. 8 unit squares C. 16 unit squares
 B. 12 unit squares D. 20 unit squares

4) Ava uses 4 of her 8 markers. What fraction did she use?



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



Scan me!
For more practice
& answers

5) Which list shows skip counting by 4s?

A. 2, 4, 6, 8, 10

C. 3, 6, 9, 12, 15

B. 5, 10, 15, 20, 25

D. 4, 8, 12, 16, 20

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

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

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

B. $\frac{3}{4}$

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

7) Kai saves 15 dollars from his allowance. His grandma gives him 20 dollars. He spends 18 dollars on a book. How much money does Kai have left?

A. 12

C. 17

B. 15

D. 23

8) Lily wrote these four facts about the same numbers. Which one does NOT belong in the fact family?

A. $36 \div 6 = 6$

C. $36 \div 9 = 4$

B. $9 \times 4 = 36$

D. $4 \times 9 = 36$

9) Which fraction is equivalent to $\frac{3}{4}$?

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

C. $\frac{6}{8}$

B. $\frac{4}{3}$

D. $\frac{1}{2}$

10) Sam divides a number line from 0 to 1 into 4 equal parts. How many parts are between 0 and the second tick mark?

A. 1

C. 3

B. 2

D. 4



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.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct. **(3.OA.A.3)** Divide: $32 \div 4 = 8$ cookies per friend.
- Choice D is correct. **(3.OA.D.9)** 42 ends in 2, not 0 or 5, so it is not a multiple of 5. All others end in 0 or 5.
- The correct answer is 1 inch. **(3.MD.B.4)** Range = max - min = $8 - 7 = 1$ inch.
- Choice A is correct. **(3.G.A.2)** Two shaded parts out of 4 equal parts is $\frac{2}{4}$.
- Choice C is correct. **(3.NBT.A.3)** 6 packages of 20 blocks = $6 \times 20 = 120$ blocks. Multiply $6 \times 2 = 12$, then add one zero.
- Choice B is correct. **(3.NF.A.2)** $\frac{3}{6} = \frac{1}{2}$ because both represent one-half.
- Choice B is correct. **(3.MD.C.6)** $3 \times 6 = 18$ sq ft. The other choices do not equal 18.
- Choice A is correct. **(3.MD.C.5)** $9 \times 2 = 18$ unit square stickers are needed.
- Choice D is correct. **(3.OA.B.5)** The distributive property lets us break apart a sum. Here, $7 \times (5 + 2)$ is distributed to $7 \times 5 + 7 \times 2 = 35 + 14 = 49$.
- Choice D is correct. **(3.OA.A.2)** Measurement division: $20 \div 5 = 4$. There are 4 groups of 5 in 20.
- Choice C is correct. **(3.MD.A.1)** The minute hand points to 48 (just before 10), and the hour hand is nearly at 2, meaning the hour is 1. The time is 1 : 48.
- Choice B is correct. **(3.MD.C.7)** Area = $9 \times 4 = 36$ square meters.
- The correct answer is 4 right angles. **(3.G.A.1)** A square has 4 right angles.
- Choice B is correct. **(3.MD.A.2)** Divide: $600 \div 3 = 200$ g per bag.
- Choice D is correct. **(3.OA.B.6)** Finding the missing factor: $6 \times 8 = 48$. This is the same as asking $48 \div 8 = \square$. We think: what times 8 makes 48? The answer is 6 because $6 \times 8 = 48$.
- Choice D is correct. **(3.OA.C.7)** 5 rows with 6 chairs each: $5 \times 6 = 30$.
- Choices B and C are correct. **(3.MD.D.8)** Area of a rectangle = length \times width = $8 \times 5 = 40$ square feet. Choice E is false because 8×5 equals 40, not 45. Perimeter is found by adding all four sides.
- Choice C is correct. **(3.NF.A.1)** The pie has 6 equal slices. Ava eats 1 slice, so she eats $\frac{1}{6}$ of the pie.
- Choice A is correct. **(3.NF.A.3)** Both rectangles show the same shaded amount. $\frac{1}{3} = \frac{2}{6}$ because $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$.
- The correct answer is 12. **(3.OA.A.1)** $3 \times 4 = 12$.
- Choice A is correct. **(3.MD.B.3)** Count the symbols in the picture graph and multiply each count by the scale.
- 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.
- Choice A is correct. **(3.NF.A.1)** Two equal parts gives unit fraction $\frac{1}{2}$.
- Choice C is correct. **(3.MD.C.6)** The garden is $6 \text{ m} \times 2 \text{ m} = 12 \text{ m}^2$, which equals 12 unit squares of 1 m by 1 m.
- Choice B is correct. **(3.MD.C.5)** Multiply length by width: $9 \times 2 = 18$ square feet.
- Choice A is correct. **(3.NBT.A.1)** The tens digit is 2. Since $2 < 5$, round down: 325 rounds to 300.
- Choice A is correct. **(3.MD.C.7)** Multiply the outside number by each part inside, then add.
- Choice A is correct. **(3.MD.C.5)** Top: $2 \times 4 = 8$ sq units. Bottom left: $3 \times 2 = 6$ sq units. Bottom right: $3 \times 2 = 6$ sq units. Total: $8 + 6 + 6 = 20$ sq units.
- Choice D is correct. **(3.G.A.2)** $\frac{2}{2} = 1$ whole. All parts of the rectangle are colored.
- Choice A is correct. **(3.NF.A.3)** Both pies show the same shaded region. $\frac{1}{4}$ and $\frac{2}{8}$ are equivalent.

Practice Test 2 Answers and Explanations

- Choice B is correct. **(3.G.A.1)** Both squares and rhombuses have 4 equal sides. The key difference is that a square must have 4 right angles, while a rhombus does not.



Scan me!
For more practice
& answers

Hi, Math Pilot!

◇ 8 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

PRACTICE TODAY. MASTER TOMORROW.

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

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

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!



Visit testinar.com/math3
for more Grade 3 math resources
and practice materials!

PREPARE. PRACTICE. SUCCEED.

Give your child the **confidence** to excel in math!



Aligned to
Standards



Created by
Educators



Designed for
Success