

6

Colorado CMAS

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 Colorado CMAS 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 Colorado CMAS. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Colorado brings mountain passes, snowy peaks, prairie towns, and fast rivers. Strong math uses that same care: read the task, select a strategy, build the solution, and check direction and altitude as you work.

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 Colorado students, each lab is a short route through mountain passes, snowy peaks, prairie towns, and fast rivers: 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 Colorado 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 Colorado CMAS path.



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1) A tile has an area of 16 square inches. Which dimensions could make this area?

- A. 4 in and 4 in C. 2 in and 7 in
 B. 3 in and 5 in D. 5 in and 4 in

2) Lily knows that $3 \times 6 = 18$. How does this help her find 3×7 ?

- A. Add 3 to get $18 + 3 = 21$ C. Add 7 to get $18 + 7 = 25$
 B. The answer is 18 D. Multiply 18 by 7

3) 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

4) Which equation is true?

- A. $3 \times 6 = 19$ C. $8 \times 5 = 42$
 B. $9 \times 3 = 28$ D. $5 \times 6 = 30$

5) The picture shows $\frac{6}{2}$. How many wholes?



- A. 2 C. 6
 B. 3 D. 1

6) Skip count by 6: 6, 12, 18, 24, 30, 36.

What is the next number?

- A. 40 C. 42
 B. 41 D. 48



7) Two rectangles have the same area. Rectangle 1 is 2 units by 9 units. Rectangle 2 is 3 units by ? units. What is the missing length?

- A. 4 units C. 6 units
 B. 5 units D. 7 units

8) What number makes the equation true?

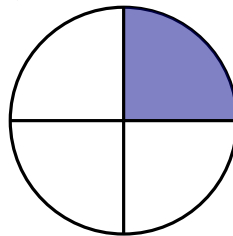
$$\square \times 6 = 48$$

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

9) A large rectangle is made of two tiled rectangles. One is 5×9 and the other is 5×3 . What is the equation in distributive form?

- A. $5 \times (9 + 3) = 5 \times 12 = 60$ C. $9 + 3 = 12$
 B. $(5 + 9) + (5 + 3) = 21$ D. $5 \times 9 \times 3 = 135$

10) Look at the circle. It is divided into 4 equal parts. One part is shaded.



What fraction is shaded?

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



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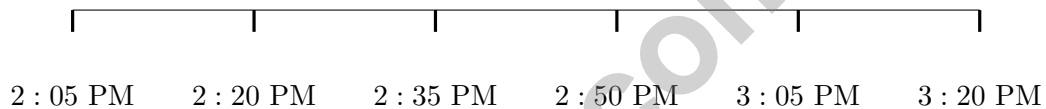
11) Which fraction is equivalent to $\frac{1}{3}$?

- A. $\frac{2}{4}$
 B. $\frac{2}{8}$

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

12) Find $18 \div 6$.

13) Look at the number line showing elapsed time.



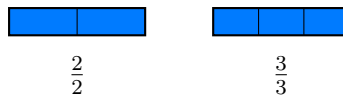
What is the elapsed time from 2 : 35 PM to 3 : 05 PM?

- A. 25 minutes
 B. 30 minutes
 C. 35 minutes
 D. 45 minutes

14) What is the missing number? $28 \div \square = 7$

- A. 3
 B. 6
 C. 5
 D. 4

15)

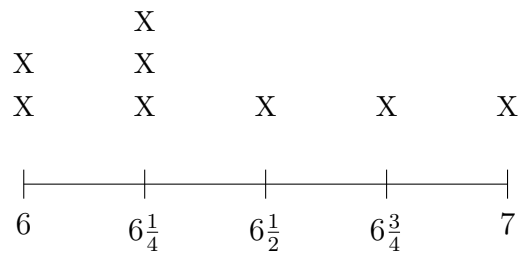


The bars show two fractions. Are they equal?

- A. Yes, they are equal
 B. No, $\frac{2}{2}$ is larger
 C. No, $\frac{3}{3}$ is larger
 D. Cannot tell



1) A line plot shows jump rope lengths in feet: $6, 6\frac{1}{4}, 6\frac{1}{2}, 6\frac{3}{4}, 7$.



How many jump ropes are at least $6\frac{1}{4}$ feet long?

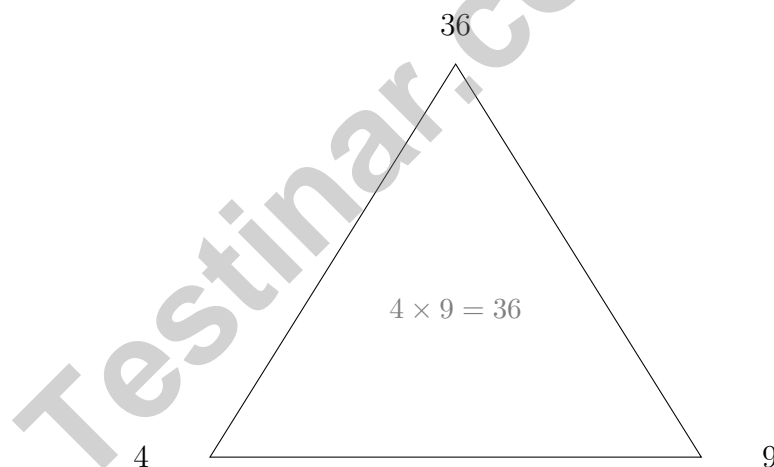
A. 5

C. 7

B. 6

D. 8

2) Look at the fact-family triangle. Which two divisions can you write?



A. $36 \div 4 = 9$ and $36 \div 9 = 4$

C. $4 + 9 = 13$ and $36 - 13 = 23$

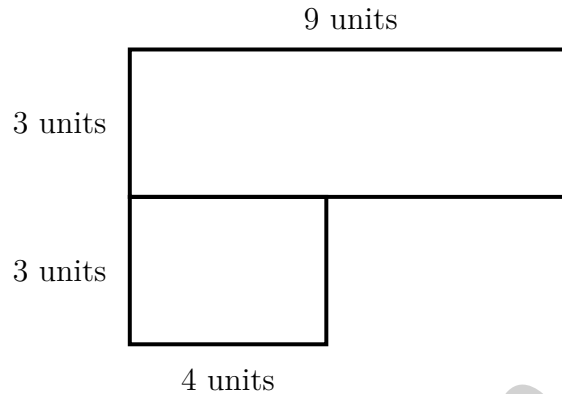
B. $36 \div 9 = 36$ and $36 \div 4 = 36$

D. $9 \div 4 = 2$ and $36 \div 2 = 18$



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- 3) An L-shaped parking lot is shown. Part 1 is 9 units by 3 units. Part 2 is 4 units by 3 units. What is the total area?



- A. 39 sq units C. 12 sq units
 B. 27 sq units D. 108 sq units
- 4) Lily buys 3 packages of toy cars. Each package has 40 toy cars. How many toy cars does Lily buy?
- A. 34 C. 120
 B. 43 D. 1200
- 5) Ordering fractions: which list goes from smallest to largest?
- A. $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}$ C. $\frac{1}{4}, \frac{1}{8}, \frac{1}{2}$
 B. $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$ D. $\frac{1}{8}, \frac{1}{2}, \frac{1}{4}$
- 6) 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



5) Which shape covers more space: a rectangle that is 3 units by 7 units, or a square that is 5 units by 5 units?

- A. The rectangle
 B. The square
 C. They cover the same space
 D. The rectangle is taller

6) A large rectangle with total area 56 is split into two smaller rectangles. One is 7×6 with area 42. Using the distributive property with the shared dimension of 7, what is the area of the second rectangle?

- A. 14
 B. 42
 C. 7
 D. 8

7) Which is larger: $\frac{2}{3}$ or $\frac{2}{4}$?



8) Which situation can be solved using $24 \div 6$?

- A. 24 cookies shared equally among 6 friends
 B. 6 items split between 24 people
 C. 24 times 6
 D. 24 plus 6

9) Lily bakes 36 cupcakes. She divides them equally into 4 boxes. She sells 2 boxes. How many cupcakes does she have left?

- A. 9
 B. 18
 C. 27
 D. 36



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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 A is correct.** **(3.MD.C.6)** $4 \times 4 = 16$ sq in. The other choices do not equal 16.
- Choice A is correct.** **(3.OA.B.5)** $3 \times 7 = 3 \times (6 + 1) = 3 \times 6 + 3 \times 1 = 18 + 3 = 21$. Using the distributive property, she can add one more group of 3.
- Choice D is correct.** **(3.OA.A.1)** Counting by ones from 0 to 10 does not show equal groups or repeated addition. Multiplication requires equal groups or arrays, like choices A, C, and D.
- Choice D is correct.** **(3.OA.C.7)** $5 \times 6 = 30$ is correct. The other answers are: $3 \times 6 = 18$, $8 \times 5 = 40$, and $9 \times 3 = 27$.
- Choice B is correct.** **(3.G.A.2)** 6 halves divided by 2 halves per whole = $6 \div 2 = 3$ wholes.
- Choice C is correct.** **(3.OA.D.9)** Add 6 each time: $36 + 6 = 42$. This is the pattern for multiples of 6.
- Choice C is correct.** **(3.MD.C.7)** Rectangle 1: $2 \times 9 = 18$ sq units. Rectangle 2: $3 \times ? = 18$. So $? = 18 \div 3 = 6$ units.
- Choice D is correct.** **(3.OA.A.4)** Divide: $48 \div 6 = 8$. Check: $8 \times 6 = 48$.
- Choice A is correct.** **(3.MD.C.7)** Both rectangles share width 5. Adding them means adding the other dimensions: $9 + 3 = 12$, so $5 \times (9 + 3)$.
- Choice B is correct.** **(3.NF.A.1)** The circle is divided into 4 equal parts. One part is shaded, so the shaded fraction is $\frac{1}{4}$ (one-fourth).
- Choice C is correct.** **(3.NF.A.3)** $\frac{1}{3}$ and $\frac{2}{6}$ both equal one-third of a whole.
- The correct answer is 3.** **(3.OA.A.2)** $18 \div 6 = 3$.
- Choice B is correct.** **(3.MD.A.1)** From 2 : 35 to 3 : 05 spans 2 intervals on the number line: $15 + 15 = 30$ minutes.
- Choice D is correct.** **(3.OA.B.6)** If $28 \div \square = 7$, then $7 \times \square = 28$. Since $7 \times 4 = 28$, the missing number is 4.
- Choice A is correct.** **(3.NF.A.3)** Both fractions equal one whole. Two halves and three thirds both fill the entire bar.
- Choices A and B are correct.** **(3.MD.A.2)** Choices A and B are both true. Choice C is false: 2500 g is greater than 2000 g. Choice D requires unit conversion (not Grade 3). Choice E is false: 750 mL is less than 1000 mL.
- Choice A is correct.** **(3.NBT.A.2)** Ones: $0 - 3$ requires regrouping, so $10 - 3 = 7$. Tens: $9 - 4 = 5$ (after regrouping). Hundreds: $4 - 2 = 2$ (after regrouping). Answer: 257.
- Choice C is correct.** **(3.NF.A.2)** $\frac{3}{4} = \frac{6}{8}$ because both represent three-fourths of the strip.
- The correct answer is 2 X's.** **(3.MD.B.4)** Two leaves measured exactly $2\frac{1}{4}$ inches, so there would be 2 X's above the $2\frac{1}{4}$ mark.
- Choice C is correct.** **(3.MD.C.5)** Vertical: $7 \times 6 = 42$ sq units. Horizontal: $8 \times 3 = 24$ sq units. Total: $42 + 24 = 66$ sq units.
- Choice D is correct.** **(3.OA.A.3)** Multiply: 8 rows \times 4 columns = 32 soldiers.
- Choice A is correct.** **(3.NF.A.1)** The first and only tick mark on a line divided into 2 parts is at $\frac{1}{2}$.
- Choice B is correct.** **(3.OA.D.8)** Step 1: Add the marbles: $9 + 6 = 15$. Step 2: Divide into 3 equal groups: $15 \div 3 = 5$ marbles in each group. (Choice D is the answer to step 1 only.)
- Choice D is correct.** **(3.NBT.A.3)** 7 packs of 10 pencils = $7 \times 10 = 70$ pencils.
- Choice D is correct.** **(3.NBT.A.1)** Numbers from 65 to 74 round to 70. The number 67 has ones digit $7 \geq 5$, so it rounds up to 70.
- Choice B is correct.** **(3.NF.A.2)** $\frac{4}{8}$ and $\frac{2}{4}$ mark the exact same point: the middle of the line. They name the same location.
- Choice A is correct.** **(3.MD.D.8)** 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.
- The correct answer is 4 equal sides.** **(3.G.A.1)** A rhombus is defined by having 4 equal sides. When that rhombus also has 4 right angles (like a rectangle), it meets the definition of a square. A square is the shape that has properties of BOTH a rhombus and a rectangle.
- Choice D is correct.** **(3.NF.A.2)** $\frac{5}{3} = 1\frac{2}{3} \approx 1.67$. This is past 1.



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Hi, Math Inventor!

◇ 6 practice tests. 6 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.

Jay Daie

Your Math Inventor

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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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- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
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