

7

Colorado

CMAS

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$

7 Colorado CMAS Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven complete 30-question Grade 4 practice rounds for CMAS, built around mountain passes, blue skies, and steady summit steps, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Colorado Math Explorer!

Seven steady rounds on the Rocky Mountain math route

This book gives you seven full Grade 4 practice tests for CMAS. Each round uses mountain passes, blue skies, and steady summit steps to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Colorado Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Colorado CMAS review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Rocky Mountain math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Seven tests, 210 questions, and a full CMAS review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 5–7	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



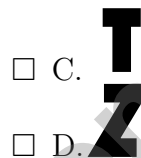
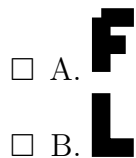
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For more practice
& answers

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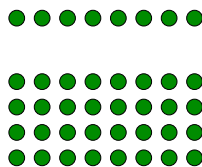
1) Zoe drinks $\frac{2}{5}$ liter each day for 5 days. How many liters total?

2) Which block letter diagram has exactly one line of symmetry?



3) A fan blade rotates $\frac{7}{12}$ of a full turn. What is the angle measurement in degrees?

Classroom A



Classroom B

4)

Classroom A has 8 library books. Classroom B has 4 times as many books as Classroom A. How many books does Classroom B have?

- A. 12
- B. 24

- C. 40
- D. 32



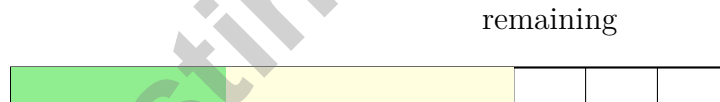
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- 5) A ribbon is cut into two pieces. One piece is $\frac{7}{10}$ meter and the other is $\frac{2}{10}$ meter. What was the original length of the ribbon?



Piece 1: $\frac{7}{10}$ Piece 2: $\frac{2}{10}$
 Original ribbon: $\frac{7}{10} + \frac{2}{10} = ?$

- A. $\frac{5}{10}$ meter C. $\frac{9}{20}$ meter
 B. $\frac{9}{10}$ meter D. $\frac{14}{10}$ or $1\frac{4}{10}$ meters
- 6) What is 11,111 rounded to the nearest thousand?
- A. 10,000 C. 12,000
 B. 11,100 D. 11,000
- 7) What is $3,456 \div 4$?
- A. 836 C. 856
 B. 846 D. 864



- 8) A garden bed uses $\frac{3}{10}$ for vegetables and $\frac{4}{10}$ for flowers. The rest will be herbs. What fraction is for herbs?

- A. $\frac{3}{10}$ C. $\frac{1}{10}$
 B. $\frac{7}{10}$ D. $\frac{6}{10}$

9) What is $34,567 + 12,321$?

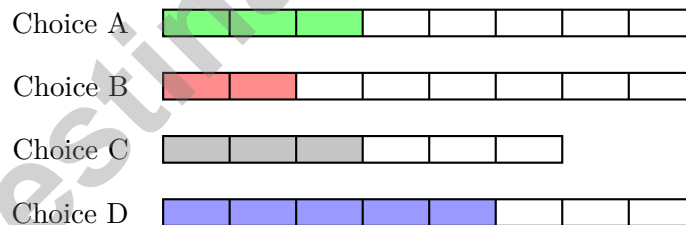
- A. 46,888 C. 47,888
 B. 46,788 D. 46,978

10) How many degrees does a right angle measure?

- A. 45 degrees C. 120 degrees
 B. 90 degrees D. 180 degrees

11) A warehouse stores 22 boxes of supplies. Each box weighs 18 kilograms. What is the total weight?

12) Which fraction bar correctly shows $\frac{3}{8}$?



- A. 3 shaded of 8 C. 3 shaded of 6
 B. 2 shaded of 8 D. 5 shaded of 8



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& answers

1) What is $55,432 - 23,108$?

A. 32,324

C. 31,324

B. 32,234

D. 32,334

2) A park has 5,040 feet of fence to divide equally into 9 sections. How many feet of fence are in each section?

3) A carton of milk contains 2 pints. How many fluid ounces is this?

A. 16

C. 64

B. 32

D. 128

4) Noah ate $\frac{2}{8}$ of a sandwich. Write an equivalent fraction in simplest form to show what part of the sandwich Noah ate.

5) There are 84 pencils in a box. 12 pencils are broken. The remaining good pencils are shared equally among 6 friends. How many pencils does each friend get?

A. 14

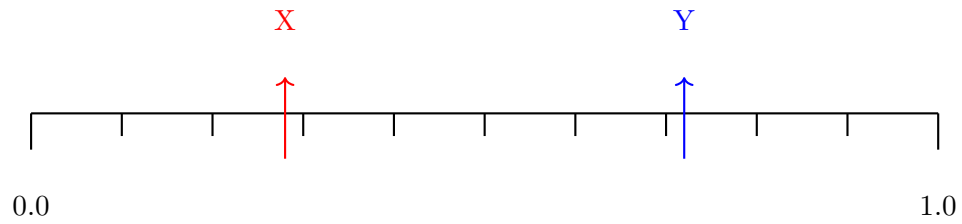
C. 16

B. 10

D. 12 pencils



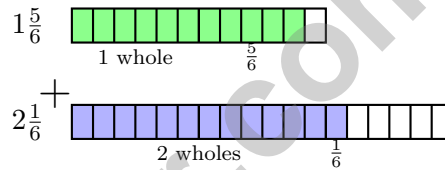
6) Look at the number line below with two decimals marked.



Which statement is true?

- A. $X = 0.28$ and $Y = 0.72$; $X < Y$ C. $X = 0.82$ and $Y = 0.27$; $X < Y$
 B. $X = 0.28$ and $Y = 0.72$; $X > Y$ D. X and Y cannot be compared

7)



What is the sum shown by the bar diagrams?

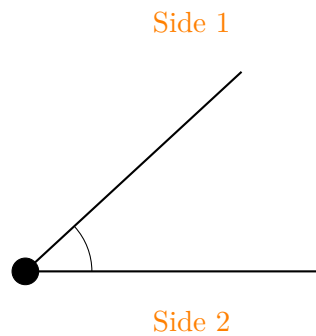
- A. $3\frac{4}{6}$ C. $3\frac{3}{6}$
 B. $3\frac{5}{6}$ D. 4

8) A baker uses $\frac{3}{4}$ cup of flour, then adds $\frac{2}{4}$ cup more. How much flour total?

- A. $\frac{5}{8}$ cup C. $\frac{1}{4}$ cup
 B. $\frac{5}{4}$ or $1\frac{1}{4}$ cups D. $\frac{6}{4}$ cups



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& answers



1)

The two orange labels point to the sides of the angle. Each side is:

- A. a straight line C. a segment
 B. a ray D. a circle

2) When you measure an angle with a protractor, the vertex of the angle should be placed where?

- A. At the center point of the protractor C. At the 0-degree mark
 B. At the top of the protractor D. Anywhere on the flat edge

3) $\frac{13}{10}$ can be decomposed as $1\frac{3}{10}$. Which equation shows this?

- A. $\frac{10}{10} + \frac{3}{10}$ C. $\frac{8}{10} + \frac{4}{10}$
 B. $\frac{10}{10} + \frac{4}{10}$ D. $\frac{6}{10} + \frac{6}{10}$

4) Sam measured ribbon lengths in fourths of a meter. She got: $\frac{2}{4}$, $\frac{3}{4}$, $\frac{2}{4}$, $\frac{4}{4}$, $\frac{3}{4}$, $\frac{3}{4}$. When plotted, which measurement has the most X marks?

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



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& answers

5) Look at the pattern: 30, 25, 20, 15, 10, ... What is the rule?

- A. Add 5 C. Subtract 10
 B. Divide by 2 D. Subtract 5

6) What is $7\frac{2}{3} - 4\frac{1}{3}$?

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

7) A right angle is split into two smaller angles. One angle measures 28° more than the other. If the smaller angle is 31° , what is the measure of the other angle?

- A. 59° C. 90°
 B. 31° D. 62°

8) Which statement about the letter N is correct?

- A. It has 1 line of symmetry C. It has no line of symmetry
 B. It has 2 lines of symmetry D. It has 4 lines of symmetry

9) Ava eats 3 of 8 equal pizza slices. What fraction of the pizza did she eat?

10) What is $2,800 \div 7$?

- A. 400 C. 410
 B. 390 D. 420



Practice Test Answer Keys

How to use this section with a Grade 4 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

- The correct answer is 2.** (4.NF.B.4) Zoe drinks $\frac{2}{5}$ liter each day for 5 days. Multiply: $5 \times \frac{2}{5} = \frac{5 \times 2}{5} = \frac{10}{5} = 2$ liters. The answer is **2** liters.
- Choice C is correct.** (4.G.A.3) The block letter T has one vertical line of symmetry down the center. The left and right halves match, but the top and bottom halves do not. The answer is choice C.
- The correct answer is 210.** (4.MD.C.5) Multiply the fraction by 360: $\frac{7}{12} \times 360^\circ = 7 \times 30^\circ = \mathbf{210^\circ}$.
- Choice D is correct.** (4.OA.A.2) Classroom B's group has 4 rows of 8 books—"4 times as many." Multiply: $4 \times 8 = 32$ books.
- Choice B is correct.** (4.NF.B.3) The ribbon was cut into two pieces. Piece 1 is $\frac{7}{10}$ meter (dark blue), and Piece 2 is $\frac{2}{10}$ meter (sky blue). Together: $7 + 2 = 9$ tenths, or $\frac{9}{10}$ meter.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest thousand. Look at the hundreds digit: 1. Since $1 < 5$, we round DOWN. The thousands digit stays at 1, so the answer is **11,000**. ✓
- Choice D is correct.** (4.NBT.B.6) Use long division step by step: $3 \div 4 = 0$ r3, bring down the 4 to get $34 \div 4 = 8$ r2, bring down the 5 to get $25 \div 4 = 6$ r1, bring down the 6 to get $16 \div 4 = 4$. The quotient is **864**.
- Choice A is correct.** (4.NF.B.3) The garden bed is divided into sections shown in the picture. Step 1: Add the vegetables and flowers: $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$. Step 2: The rest is herbs: $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}$.
- Choice A is correct.** (4.NBT.B.4) Add by place value from right to left: ones $7 + 1 = 8$, tens $6 + 2 = 8$, hundreds $5 + 3 = 8$, thousands $4 + 2 = 6$, ten-thousands $3 + 1 = 4$. The sum is **46,888**.
- Choice B is correct.** (4.MD.C.6) A right angle is a special angle that measures exactly 90° every time—no more, no less. You see right angles at the corners of books, windows, doors, and many shapes we use every day. The answer is **90** degrees.
- The correct answer is 396.** (4.NBT.B.5) Weight problem: 22 boxes with 18 kg each. Calculate: $22 \times 18 = 22 \times (10 + 8) = 220 + 176 = \mathbf{396}$ kg.
- Choice A is correct.** (4.NF.B.3) In the bar, 8 equal parts total with 3 shaded. So $\frac{3}{8}$ is shown, which is three unit fractions of $\frac{1}{8}$.
- Choice D is correct.** (4.NBT.A.1) Check each number: 1,945 has 9 in the hundreds place (worth 900). The other options have 9 in different places. Answer: **1,945**. ✓
- Choice B is correct.** (4.NF.B.3) Subtract the wholes: $3 - 1 = 2$. Subtract the fractions: $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$. The difference is **$2\frac{2}{5}$** .
- Choice B is correct.** (4.NF.B.3) Sam's ribbon is $\frac{6}{8}$ yard. Cut into two equal pieces means each piece is half: $\frac{6}{8} \div 2 = \frac{3}{8}$. ✓
- Choice D is correct.** (4.G.A.1) Two lines that cross perpendicularly create four separate angles at the corner, and each one is a perfect right angle (90°).
- Choice A is correct.** (4.NF.A.1) Both fractions have numerator 2. When numerators match, smaller denominators give bigger pieces. Since $3 < 5$, $\frac{2}{3} > \frac{2}{5}$.
- The correct answer is A, D.** (4.MD.B.4) Statement A is true: the total X marks is $1 + 2 + 3 + 1 = 7$. Statement D is true: the mode is $\frac{4}{8}$ with 3 X marks (the most). The range is $\frac{5}{8} - \frac{1}{8} = \frac{4}{8}$, so B and C are false. There are only 3 X marks at $\frac{4}{8}$, not 6, so E is false.
- Choice B is correct.** (4.NF.C.5) In the decimal 0.72, the first number after the decimal point is 7 (tenths place). The second is 2 (hundredths place).
- Choice C is correct.** (4.MD.A.1) Step 1: Find total weight: $25 \times 8 = 200$ pounds. Step 2: Convert to ounces: $200 \times 16 = 3,200$ ounces. The answer is **3,200** ounces.
- Choice C is correct.** (4.MD.C.5) Mia's angle of 60° is composed of **60** one-degree angle units.
- Choice D is correct.** (4.MD.C.5) Vertex is a part of an angle (where two rays meet), not a type of angle. The types are acute, right, obtuse, and straight.
- Choice D is correct.** (4.OA.A.3) Three steps! Step 1: notebooks in the packs: $3 \times 12 = 36$. Step 2: add the gift: $36 + 6 = 42$. Step 3: share equally: $42 \div 6 = 7$ notebooks for each student.



Hi, Math Champion!

◇ You trained hard! 7 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Confidence Building
- ✓ Skill Reinforcement

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SUCCESS FOR LIFE.

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ And More!



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Mixed Question Types



Answer Key Included