

# 6 Colorado CMAS

## GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**MASTER KEY MATH CONCEPTS**  
**BUILD CONFIDENCE FOR TEST DAY**

**INCLUDES COMPREHENSIVE ANSWER KEY**  
**ALIGNED STATE STANDARDS**

# 6 Colorado CMAS Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Six 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!

Six steady rounds on the Rocky Mountain math route

This book gives you six 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?

Six tests, 180 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 4–6	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) Find  $2\frac{3}{4} - 1\frac{1}{4}$ .

2) Which decimal is equal to  $\frac{35}{100}$ ?

 A. 0.035 B. 0.35 C. 3.5 D. 35.0

3) Which statement about a square and a regular hexagon is true?

 A. Both have 4 lines of symmetry B. Both have 6 lines of symmetry C. They have different numbers of lines of symmetry D. A hexagon has fewer lines than a square

4) A pattern of stars is shown:



Figure 1



Figure 2



Figure 3

How many stars are in Figure 4?

 A. 8 B. 9 C. 10 D. 12

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5) Which number rounds to 5,000 when rounded to the nearest thousand?

A. 4,499

C. 5,550

B. 4,449

D. 5,450

6) What is the measure of an angle drawn at  $75^\circ$ ?



7) Noah ate  $\frac{5}{8}$  of a pizza. Which sentence shows one way to decompose what he ate?

A. He ate  $\frac{2}{8}$  and  $\frac{3}{8}$ .

C. He ate  $\frac{2}{8}$  and  $\frac{4}{8}$ .

B. He ate  $\frac{1}{8}$  and  $\frac{3}{8}$ .

D. He ate  $\frac{3}{8}$  and  $\frac{3}{8}$ .

8) Leo has 11 bags of marbles. Each bag has 32 marbles. How many marbles does Leo have?

A. 242

C. 315

B. 401

D. 352

9) A number is written as 6 thousands, 7 hundreds, 3 tens, and 1 one. What is the value of the hundreds?

A. 7

C. 700

B. 70

D. 7,000



10) Which number is divisible by 10?

A. 55

C. 120

B. 86

D. 135

11) A field has 200 flowers. A gardener plants 40 more. Then all the flowers are divided into 8 equal garden sections. How many flowers are in each section?

A. 25

C. 28

B. 35

D. 30

12) A sticker weighs  $\frac{1}{5}$  ounce. Emma has 3 stickers. What is the total weight in ounces?

A.  $\frac{1}{15}$  ounce

C.  $\frac{3}{15}$  ounce

B.  $\frac{3}{5}$  ounce

D.  $\frac{5}{3}$  ounces

13) Mia is comparing two prices. Socks cost \$0.80 and a pencil costs \$0.08. Which item costs more?

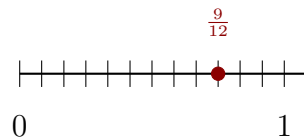
A. The socks (\$0.80)

C. Both cost the same

B. The pencil (\$0.08)

D. The pencil costs 10 times more

14) A number line shows jumps of  $\frac{1}{12}$ . At what position after 9 jumps?



A.  $\frac{1}{12}$

C.  $\frac{9}{12}$

B.  $\frac{6}{12}$

D.  $\frac{12}{12}$



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1) Maya has a ribbon 11 inches long cut into 11 equal pieces. She uses 6 pieces. What fraction of the ribbon does she use as a sum of unit fractions?

A. 6 copies of  $\frac{1}{11}$

C. 6 copies of  $\frac{1}{6}$

B. 11 copies of  $\frac{1}{11}$

D. 5 copies of  $\frac{1}{11}$

2) How many rays form an angle?



3) How many tenths equal  $\frac{20}{100}$ ?

A. 2 tenths

C. 200 tenths

B. 20 tenths

D. 0.2 tenths

4) A rectangular field has a perimeter of 80 meters. The length is 25 meters. What is the width?

A. 10 m

C. 20 m

B. 15 m

D. 55 m

5) Which describes a key difference between a square and a rhombus?

A. A square has four sides; a rhombus does not.

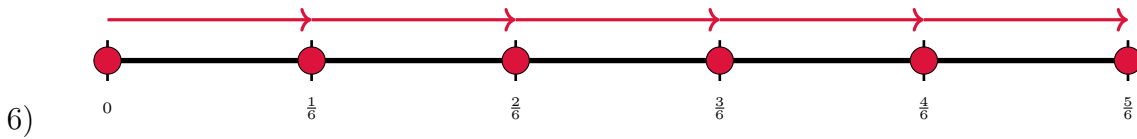
C. A rhombus has parallel sides; a square does not.

B. A square has right angles; a rhombus may not.

D. A square has parallel sides; a rhombus does not.



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& answers



The number line shows 5 jumps of  $\frac{1}{6}$ . Which equation matches this?

- A.  $5 \times \frac{1}{6} = \frac{4}{6}$
- B.  $5 \times \frac{1}{6} = \frac{5}{6}$

- C.  $5 \times \frac{6}{1} = 30$
- D.  $\frac{5}{1} = 5$

7) Is 30 prime or composite?

- A. Prime
- B. It depends

- C. Neither
- D. Composite

8) Use this place-value table:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
5	2	1	4	0	6

What is the value of the ten-thousands digit?

- A. 2
- B. 20

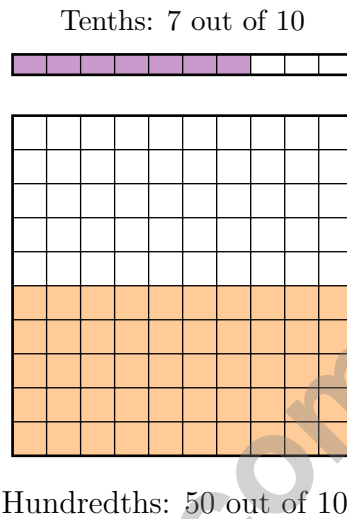
- C. 200
- D. 20,000

9) A line plot shows pebble sizes in eighths of an inch. There are 2 pebbles at  $\frac{2}{8}$  inch, 4 pebbles at  $\frac{3}{8}$  inch, and 1 pebble at  $\frac{5}{8}$  inch. How many pebbles are there in total?

- A. 5
- B. 6

- C. 7
- D. 8

1) Compare using a tenths-hundredths model. Which is true?



- A.  $\frac{7}{10} > \frac{50}{100}$ 
 C.  $\frac{7}{10} = \frac{50}{100}$
- B.  $\frac{7}{10} < \frac{50}{100}$ 
 D. Cannot be compared

Th	H	T	O
5	2	3	4

2)

This place-value chart shows 5,234. If we add 3,456, what digit appears in the hundreds place of the sum?

- A. 6
  C. 8
- B. 7
  D. 9



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3) Which fraction bar correctly shows  $\frac{7}{12}$ ?



A. 7 shaded out of 12

C. 7 shaded out of 7

B. 5 shaded out of 12

D. 3 shaded out of 3

4) How many  $30^\circ$  angles are needed to make a complete turn around a circle?

5) At a corner of a square, what is the angle measure?

6) A school has 48 third-graders. This is 4 times as many as the number of second-graders. How many second-graders are there?

A. 192

C. 44

B. 52

D. 12



## 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  $1\frac{1}{2}$ .** (4.NF.B.3) Subtract the mixed numbers:  $2\frac{3}{4} - 1\frac{1}{4} = 1\frac{2}{4}$ , which simplifies to  $1\frac{1}{2}$ .
- Choice B is correct.** (4.NF.C.5) Thirty-five hundredths uses both decimal places:  $\frac{35}{100} = 0.35$ , so the answer is **0.35**.
- Choice C is correct.** (4.G.A.3) A square balances 4 ways and a regular hexagon balances 6 ways. Since 4 and 6 are different, these shapes don't have the same number of lines of symmetry. The answer is They have different numbers of lines of symmetry.
- Choice C is correct.** (4.OA.B.4) Count stars: Figure 1 has 1, Figure 2 has 3, Figure 3 has 6. The increases are +2, then +3. Following the pattern, the next increase is +4:  $6 + 4 = 10$  stars.
- Choice D is correct.** (4.NBT.A.3) To round to the nearest thousand, check the hundreds digit in 5,450: it's 4. Since  $4 < 5$ , we round DOWN to **5,000**. ✓
- The correct answer is 75.** (4.MD.C.6) To measure an angle of  $75^\circ$ , place the baseline ray at  $0^\circ$  and draw the second ray pointing to the  $75^\circ$  mark. Since  $75^\circ$  is between  $45^\circ$  and  $90^\circ$ , it's an acute angle. The answer is **75** degrees.
- Choice A is correct.** (4.NF.B.3) Noah ate a total of  $\frac{5}{8}$ . Option A splits it into  $\frac{2}{8}$  and  $\frac{3}{8}$ :  $2 + 3 = 5$  ✓.
- Choice D is correct.** (4.NBT.B.5) Break down by tens and ones:  $11 \times (30 + 2) = 330 + 22 = 352$  marbles.
- Choice C is correct.** (4.NBT.A.1) "7 hundreds" means  $7 \times 100 = 700$ . The full number 6,731 confirms this. ✓
- Choice C is correct.** (4.OA.B.4) Divisibility rule for 10: the last digit must be exactly 0. Only 120 ends in 0, so  $120 \div 10 = 12$ . The others (55 ends in 5, 86 ends in 6, 135 ends in 5) don't end in 0, so 10 doesn't divide them evenly.
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: total flowers after planting more:  $200 + 40 = 240$ . Step 2: divide equally into 8 sections:  $240 \div 8 = 30$  flowers per section.
- Choice B is correct.** (4.NF.B.4) Emma has 3 stickers, and each weighs  $\frac{1}{5}$  ounce. We multiply:  $3 \times \frac{1}{5} = \frac{3}{5}$  ounce.
- Choice A is correct.** (4.NF.C.5) 0.80 has 8 tenths, while 0.08 has 8 hundredths (just 8 hundredths). Since 8 tenths  $>$  8 hundredths,  $0.80 >$  0.08. Socks cost more.
- Choice C is correct.** (4.NF.B.4) Each jump is  $\frac{1}{12}$ . After 9 jumps, we reach  $9 \times \frac{1}{12} = \frac{9}{12}$ .
- Choice C is correct.** (4.NF.C.5) To convert  $\frac{3}{10}$  meter to hundredths of a meter, multiply by  $\frac{10}{10}$ :  $\frac{3}{10} = \frac{3 \times 10}{10 \times 10} = \frac{30}{100}$  meter.
- Choice C is correct.** (4.MD.A.3) From the grid: 7 units long and 5 units wide. Perimeter =  $2(7) + 2(5) = 14 + 10 = 24$  units.
- The correct answer is A, D.** (4.NF.A.1) Simplify  $\frac{2}{4}$ : divide both by 2 to get  $\frac{1}{2}$  (option A) ✓ Also,  $\frac{2}{4} = \frac{2 \times 2}{4 \times 2} = \frac{4}{8}$  (option D) ✓ The other options (B, C, E) are not equivalent—they don't equal  $\frac{1}{2}$ .
- Choice C is correct.** (4.MD.A.2) Step 1: Sugar weight:  $5 \times 3 = 15$  kg. Step 2: Salt weight:  $3 \times 2 = 6$  kg. Step 3: Total:  $15 + 6 = 21$  kg. The total weight is **21** kg.
- Choice D is correct.** (4.OA.A.2) "3 times as many" is a multiplication clue. Tom has 3 groups of 8 crayons:  $3 \times 8 = 24$  blue crayons.
- Choice B is correct.** (4.MD.C.5) A quarter turn is  $\frac{1}{4}$  of the full circle:  $\frac{1}{4} \times 360^\circ = 90^\circ$ .
- Choice A is correct.** (4.MD.C.7) The angle is split into two parts. Subtract to find the missing one:  $165^\circ - 92^\circ = 73^\circ$ .
- Choice A is correct.** (4.MD.C.5) The sector is marked with 90 one-degree angle tick marks, so its measure is **90**°.
- The correct answer is  $\frac{2}{4}$ .** (4.MD.B.4) Count each measurement:  $\frac{1}{4}$  in appears 1 time,  $\frac{2}{4}$  in appears 3 times (the most!), and  $\frac{3}{4}$  in appears 2 times. So  $\frac{2}{4}$  in is the mode.
- Choice A is correct.** (4.G.A.2) Both a square and a rhombus have four equal sides in length. However, a square must have all right angles at each corner, while a rhombus does not have to have any right angles. The answer is **A**.
- Choice C is correct.** (4.MD.C.5) This angle is not a straight line, so it measures less than 180 degrees. It is much smaller than a straight angle.
- Choice B is correct.** (4.NF.B.4) On the number line, we make 4 jumps of  $\frac{1}{4}$  each, starting at 0 and landing at 1. So  $4 \times \frac{1}{4} = \frac{4}{4} = 1$ . The answer is **1**.
- Choice A is correct.** (4.NBT.B.4) Ming's friend gave her more stickers, so we add.  $567 + 234 = 801$  stickers.



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Lab Notes for a Young Scientist

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## Hi, Curious Scientist!

◇ 6 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

### Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

**Scientist tip:** on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Scientist

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

Ideal for classroom use, homework, test preparation, and extra practice at home.

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### Better Problem Solving

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### Test Confidence

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### Track Progress

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### Master Key Concepts

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### Prepare for Success

Build the confidence needed to do your best on test day.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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