

8 Colorado CMAS GRADE 4



PRACTICE TESTS



Standards-Aligned Review with
Mixed Practice and Answer Key

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 Colorado CMAS Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight 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.

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Welcome, Colorado Math Explorer!

Eight steady rounds on the Rocky Mountain math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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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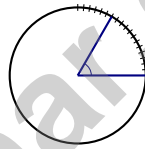


6) $2,345 + 7,654 = ?$

Use a number line to help. What is $2,345 + 7,654$?

- A. 9,999 C. 9,989
 B. 10,099 D. 9,899

7) A carousel makes $\frac{2}{3}$ of a turn. How many degrees is this?



8)

This diagram is marked from 0° to 60° . How many one-degree angles does the angle contain?

- A. 60 one-degree angles C. 59 one-degree angles
 B. 61 one-degree angles D. 30 one-degree angles

9) Which choice shows the correct long division answer for $1,953 \div 3$?

- A. 651 C. 641
 B. 631 D. 661

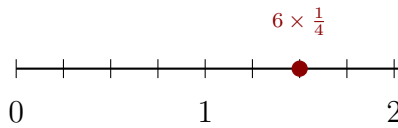


- 1) When measuring an angle, which edge of the protractor must one ray of the angle lie along?
- A. The straight baseline edge C. The left curved side
 B. The rounded edge D. Any edge works equally well
- 2) Which word problem matches $15 = 3 \times 5$?
- A. Ana has 5 pencils. Ben has 3 times as many. How many does Ben have?
 B. Ana has 5 pencils and Ben has 3 more. How many total?
 C. Ana has 5 pencils. She gives away 3. How many left?
 D. Ana and Ben have 15 pencils each.
- 3) On a line plot showing string lengths in fourths, there are 2 X marks at $\frac{1}{4}$ inch, 3 X marks at $\frac{2}{4}$ inch, and 1 X mark at $\frac{3}{4}$ inch. What is the total number of strings?
- A. 4 C. 6
 B. 5 D. 7
- 4) What is $\frac{2}{3}$ as a sum of unit fractions?
- A. $\frac{1}{2} + \frac{1}{2}$ C. $\frac{2}{3} + \frac{1}{3}$
 B. $\frac{1}{3} + \frac{1}{3}$ D. $\frac{3}{3}$
- 5) In 78,401, what is the value of the digit 8?



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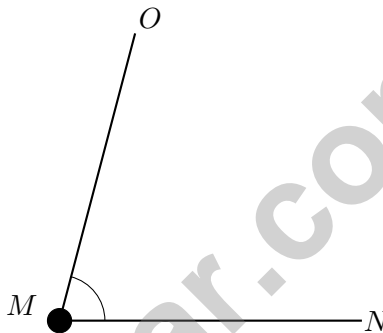
1) On a number line, locate the point at $6 \times \frac{1}{4}$. What is this value as a mixed number?



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

- C. $1\frac{1}{4}$
- D. $\frac{6}{4}$

2)



The angle $\angle NMO$ is shown. How would you name this angle differently?

- A. $\angle NOM$
- B. $\angle ONM$

- C. $\angle OMN$
- D. $\angle MOM$

3) What is $\frac{6}{10} + \frac{20}{100}$?

- A. $\frac{26}{100}$
- B. $\frac{80}{100}$

- C. $\frac{26}{110}$
- D. $\frac{62}{100}$



4) Which numeral represents “two hundred thirty-four thousand, six hundred seventy-eight”?

A. 243,678

C. 234,687

B. 234,768

D. 234,678

5) Ming had $5\frac{3}{4}$ cups of milk. She used $1\frac{1}{4}$ cups for cereal. How much milk is left?

A. $4\frac{1}{4}$ cups

C. $4\frac{3}{4}$ cups

B. $4\frac{2}{4}$ cups

D. $5\frac{1}{4}$ cups

6) Which fraction is in simplest form?

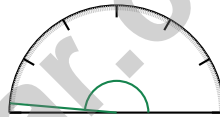
A. $\frac{2}{6}$

C. $\frac{4}{10}$

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

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

7)



What is the measure of this angle very close to a straight line?

A. 180 degrees

C. 5 degrees

B. 175 degrees

D. 170 degrees

8) Which of the following is the same as $5 \times \frac{1}{12}$?

A. $\frac{5}{12}$

C. $\frac{1}{60}$

B. $\frac{12}{5}$

D. $\frac{5}{1}$



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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

- 1) **Choice D is correct.** **(4.OA.A.1)** “3 times as many” is a multiplication signal. Emma’s sister has $6 \times 3 = 18$ books.
- 2) **Choice B is correct.** **(4.NF.B.3)** Six unit fractions of $\frac{1}{6}$ make $\frac{6}{6}$, which is one whole. Count: 6 ones make 6 in the numerator.
- 3) **Choice C is correct.** **(4.G.A.2)** A rhombus has four equal sides and two pairs of parallel sides but does not have right angles. These attributes match the shape described in the problem. The answer is **C**.
- 4) **Choice B is correct.** **(4.MD.C.6)** A straight angle is perfectly flat—it’s a straight line with two rays pointing opposite directions. This special angle always measures exactly 180° , which is the full width of the protractor. The answer is **180** degrees.
- 5) **Choice D is correct.** **(4.OA.A.3)** Two steps! Step 1: find Kai’s total cars. $15 + 9 = 24$ cars. Step 2: equal boxes means divide: $24 \div 4 = 6$ cars in each box.
- 6) **Choice A is correct.** **(4.NBT.B.4)** Add: $2,345 + 7,654 = 9,999$. The digits complement each other perfectly!
- 7) **The correct answer is 240.** **(4.MD.C.5)** Two-thirds of the full turn: $\frac{2}{3} \times 360^\circ = 240^\circ$.
- 8) **Choice A is correct.** **(4.MD.C.5)** The diagram shows the angle from 0° to 60° , giving us **60** one-degree angles.
- 9) **Choice A is correct.** **(4.NBT.B.6)** Use long division: $1 \div 3 = 0$ r1, bring down the 9 to get $19 \div 3 = 6$ r1, bring down the 5 to get $15 \div 3 = 5$, bring down the 3 to get $3 \div 3 = 1$. The answer is **651**.
- 10) **Choice B is correct.** **(4.MD.B.4)** Group A total: $\frac{1}{4} + \frac{1}{4} + \frac{2}{4} = \frac{4}{4} = 1$ in. Group B total: $\frac{2}{4} + \frac{2}{4} + \frac{3}{4} = \frac{7}{4}$ in. Group B has a longer total length.
- 11) **Choice C is correct.** **(4.NF.B.4)** Maya hops by halves: $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}$. After 3 hops, she reaches $\frac{3}{2}$.
- 12) **Choice B is correct.** **(4.NBT.A.3)** Rounding to the nearest ten thousand means we look at the thousands digit of each option. Option B (74,500): thousands digit is $4 < 5$, rounds DOWN to **70,000**. ✓ Option A (64,999): thousands digit is $4 < 5$, rounds DOWN to 60,000. Option C (75,001): thousands digit is $5 \geq 5$, rounds UP to 80,000. Option D (75,499): thousands digit is $5 \geq 5$, rounds UP to 80,000.
- 13) **Choice A is correct.** **(4.NF.B.3)** The bar shows 7 unit fractions, each $\frac{1}{8}$. Seven copies: $\frac{1}{8} \times 7 = \frac{7}{8}$ ✓.
- 14) **Choice B is correct.** **(4.MD.A.1)** Since 1 yard = 3 feet, multiply: $9 \times 3 = 27$ feet. The answer is **27** feet.
- 15) **Choice D is correct.** **(4.OA.B.4)** Test the small primes: 43 is odd; $4 + 3 = 7$ (not $\div 3$); doesn’t end in 0 or 5; $7 \times 6 = 42$, $7 \times 7 = 49$, no 7. So 43’s only factors are 1 and 43—**prime**.
- 16) **Choice D is correct.** **(4.OA.A.2)** “2 times as many” tells us to multiply: $2 \times 40 = 80$ cookies today.
- 17) **The correct answer is A, D.** **(4.NBT.A.1)** A is true: 5 is in the hundreds place. D is true: 4 is in the tens place ($4 \times 10 = 40$). B, C, E are false. Answer: A and D. ✓
- 18) **The correct answer is 0.70.** **(4.NF.C.5)** A trailing zero doesn’t change the value. Both 0.7 and 0.70 equal the same amount.
- 19) **Choice B is correct.** **(4.NF.B.4)** Eight party favor bags, each with $\frac{1}{6}$ pound of candy, use $8 \times \frac{1}{6} = \frac{8}{6}$, which is $1\frac{1}{3}$ pounds.
- 20) **The correct answer is 77° .** **(4.MD.C.5)** The label gives the angle measure: **77°** .
- 21) **Choice B is correct.** **(4.MD.A.3)** Using $P = 2\ell + 2w = 42$ with $\ell = 12$: $2(12) + 2w = 42$. Simplify: $24 + 2w = 42$, so $2w = 18$, thus $w = 9$ in.
- 22) **Choice D is correct.** **(4.NF.A.1)** Multiply both numerator and denominator by 2 to get a denominator of 10: $\frac{1}{5} = \frac{1 \times 2}{5 \times 2} = \frac{2}{10}$.
- 23) **Choice D is correct.** **(4.NF.B.4)** Dylan is making 5 batches, each with $\frac{3}{4}$ cup of sugar. Multiply: $5 \times \frac{3}{4} = \frac{5 \times 3}{4} = \frac{15}{4} = 3\frac{3}{4}$ cups. The answer is $3\frac{3}{4}$ cups.
- 24) **Choice B is correct.** **(4.NF.B.4)** Each portion is worth $\frac{1}{12}$ of the cake. With 6 portions, we have $6 \times \frac{1}{12} = \frac{6}{12}$ of the cake.
- 25) **Choice C is correct.** **(4.MD.A.2)** One lap takes 3 minutes. For 9 laps, multiply: $3 \times 9 = 27$ minutes. It will take **27** minutes total.
- 26) **Choice D is correct.** **(4.G.A.3)** A regular triangle means an equilateral triangle with three equal sides and angles. Three fold lines (each from a corner to the middle of the opposite side) create balance. The answer is **3** lines of symmetry.



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A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 8 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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- ✓ Test Preparation
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- ✓ Multiplication & Division
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