

5 Colorado CMAS

Standards-Aligned Review with
Mixed Practice and Answer Key

A+

5 Colorado CMAS Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five 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!

Five steady rounds on the Rocky Mountain math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	37
★ Practice Test 4	_____	48
★ Practice Test 5	_____	60
Practice Test Answer Keys	_____	70
Practice Test Answers and Explanations	_____	74

1) A rectangle has an area of 63 square feet. The length is 9 feet. What is the width?

A. 6 ft

C. 9 ft

B. 8 ft

D. 7 ft

2) A watermelon weighs 6 kilograms. How many grams does it weigh?

A. 60

C. 6,000

B. 600

D. 60,000

3) Sam has 5 liters of juice. He uses 2 liters to make punch. How many liters of juice does he have left?

A. 2 L

C. 5 L

B. 3 L

D. 7 L

4) Mia has $4\frac{2}{3}$ hours to complete a project. She spends $2\frac{1}{3}$ hours on the first part. How much time remains for the rest?

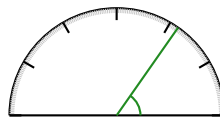
A. $2\frac{1}{3}$

C. $6\frac{3}{3}$

B. $1\frac{1}{3}$

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

5)



Diego measures an angle and finds it to be between 45 and 60 degrees. Which is a reasonable degree measure?

A. 53 degrees

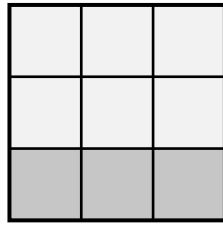
C. 62 degrees

B. 40 degrees

D. 70 degrees



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9 equal pieces

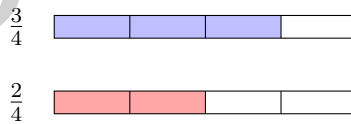
6)

A chocolate bar has 9 pieces. Each piece is $\frac{1}{9}$ of the bar. If you eat 3 pieces, what fraction of the bar do you eat?

- A. $\frac{3}{27}$ of the bar C. $\frac{1}{27}$ of the bar
 B. $\frac{3}{9}$ of the bar (or $\frac{1}{3}$ of the bar) D. $\frac{6}{9}$ of the bar

7) A farmer has two fields. Field A is 0.83 km wide and Field B is 0.38 km wide. Which field is wider?

8) Look at the fraction bars below. Which comparison is correct?



- A. $\frac{3}{4} < \frac{2}{4}$ C. $\frac{3}{4} = \frac{2}{4}$
 B. $\frac{2}{4} > \frac{3}{4}$ D. $\frac{3}{4} > \frac{2}{4}$

9) Which statement correctly compares these two angles?

Angle 1

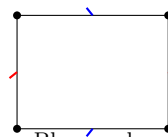


Angle 2



- A. Angle 1 is obtuse; Angle 2 is acute C. Both angles are right angles
 B. Angle 1 is acute; Angle 2 is obtuse D. Both angles are the same size

10) Look at the shape with tick marks. The tick marks show:



Blue marks:
top/bottom
Red marks: sides

- A. Opposite sides are equal C. Adjacent sides are equal
 B. All sides are equal D. No sides are equal

11) The factors of 18 are shown in the table. Which number is missing?

Factor Pair
$1 \times 18 = 18$
$2 \times 9 = 18$
$3 \times ? = 18$

- A. 5 C. 7
 B. 9 D. 6



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1) Write $\frac{50}{100}$ as a decimal.

2) Which figure is NOT a quadrilateral?

A. Square

B. Triangle

C. Rectangle

D. Trapezoid

3) Look at the place-value chart below. What is the value of the digit in the tens place?

Thousands	Hundreds	Tens	Ones
2	3	7	4

A. 7

B. 7,000

C. 700

D. 70

4) What is $100,000 - 67,234$?

A. 32,766

B. 33,766

C. 32,666

D. 33,666

5) Three hops of $\frac{1}{4}$ land at what fraction?



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6) Which is true?

A. $0.5 > \frac{6}{10}$

B. $0.5 < \frac{4}{10}$

C. $0.5 = \frac{5}{10}$

D. $0.5 = \frac{5}{100}$

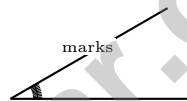
7) A pattern shows every third multiple of 4. Which list shows this pattern?

 A. 4, 8, 12, 16, 20 B. 8, 16, 24, 32, 40 C. 4, 12, 20, 28, 36 D. 12, 24, 36, 48, 60

8) A music class has 156 minutes of rehearsal to divide evenly across 4 days. How many minutes are planned for each day?

 A. 39 minutes B. 52 minutes C. 156 minutes D. 160 minutes

9)



This angle is marked from 0° to 30° . How many one-degree angles does the angle contain?

 A. 29 one-degree angles B. 30 one-degree angles C. 31 one-degree angles D. 60 one-degree angles

10) All the factors of 24 are:

 A. 1, 2, 3, 4, 8, 12, 24 B. 1, 2, 4, 6, 8, 12, 24 C. 2, 3, 4, 6, 8, 12, 24 D. 1, 2, 3, 4, 6, 8, 12, 24

1) A baker uses $\frac{5}{8}$ cup of flour for one batch. How much flour does he use for 3 batches?

A. $\frac{5}{24}$ cups

B. $\frac{8}{5}$ cups

C. $\frac{15}{8}$ cups or $1\frac{7}{8}$ cups

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

2) A right angle measures 90° . If it is divided into two angles measuring 35° and another angle, what is the measure of the unknown angle?

A. 45°

B. 55°

C. 125°

D. 35°

3) An acute angle measures less than how many degrees?

4) Noah drew an angle that measures 42 degrees. How many one-degree angles does his angle contain?

5) What is $72 \div 8$?



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

- Choice D is correct.** **(4.MD.A.3)** From area: $63 = 9 \times w$. Divide: $w = 63 \div 9 = 7$ ft.
- Choice C is correct.** **(4.MD.A.1)** 1 kilogram = 1,000 grams. So $6 \text{ kg} = 6 \times 1,000 = 6,000$ g.
- Choice B is correct.** **(4.MD.A.2)** Sam starts with 5 liters and uses 2 liters for punch. Subtract to find what's left: $5 - 2 = 3$ liters. He has **3** liters remaining.
- Choice A is correct.** **(4.NF.B.3)** Mia has limited time for her project. Subtract the time she spends on the first part from the total time: $4\frac{2}{3} - 2\frac{1}{3} = 2\frac{1}{3}$ hours remain.
- Choice A is correct.** **(4.MD.C.6)** Diego needs a measure between 45° and 60° . At 53° , this falls right in that range. The other choices fall outside or at the edges of his measurement range. The answer is **53** degrees.
- Choice B is correct.** **(4.NF.B.4)** Eating 3 pieces, where each is $\frac{1}{9}$ of the bar, means we multiply: $3 \times \frac{1}{9} = \frac{3}{9}$, which simplifies to $\frac{1}{3}$.
- The correct answer is Field A.** **(4.NF.C.5)** Compare tenths first (they outweigh hundredths). Field A has 8 tenths; Field B has 3 tenths. Since $8 > 3$, $0.83 > 0.38$, so Field A is wider. ✓
- Choice D is correct.** **(4.NF.A.1)** The bars show us! The blue bar for $\frac{3}{4}$ is longer than the coral bar for $\frac{2}{4}$. Bigger shaded area means bigger fraction.
- Choice B is correct.** **(4.G.A.1)** Angle 1 is a small opening — less than 90° — so it's acute. Angle 2 opens much wider, more than 90° , making it obtuse.
- Choice A is correct.** **(4.G.A.2)** The blue tick marks appear on opposite sides (top and bottom), and the red tick marks appear on the opposite sides (left and right). This pattern indicates that opposite sides are equal in length. The answer is **A**.
- Choice D is correct.** **(4.OA.B.4)** We need a number that pairs with 3 to make 18. Ask: $3 \times ? = 18$. Since $3 \times 6 = 18$, the missing factor is **6**.
- Choice C is correct.** **(4.NBT.A.1)** Step 1: name the values. In 7,654, the 6 sits in the hundreds place (worth $6 \times 100 = 600$); the 5 sits in the tens place (worth $5 \times 10 = 50$). Step 2: compare with division: $600 \div 50 = 12$. So the 6's value is **12** times the 5's value. *Note:* the digits are different here, so the answer isn't just a power of 10. ✓
- Choice D is correct.** **(4.OA.B.4)** First find the rule by looking at the gaps: $6 - 2 = 4$, $10 - 6 = 4$, $14 - 10 = 4$, $18 - 14 = 4$. So the rule is "add 4." Apply it once more: $18 + 4 = \mathbf{22}$.
- The correct answer is 24.** **(4.OA.A.1)** "4 times as many" tells us to multiply. The cousin has $6 \times 4 = \mathbf{24}$ trains.
- The correct answer is 90.** **(4.MD.C.5)** The hour hand moves 30° per hour. From 2 to 5 is 3 hours, so $3 \times 30^\circ = \mathbf{90^\circ}$.
- Choice D is correct.** **(4.OA.A.3)** Two steps! Step 1: find the total cookies. 6 batches $\times 25 = 150$ cookies. Step 2: pack into boxes of 8: $150 \div 8 = 18$ remainder 6. The remainder isn't enough to fill another box, so they fill **18** complete boxes.
- Choice A is correct.** **(4.NF.A.1)** Picture A shows two bars with exactly the same shaded length: $\frac{1}{2}$ (1 of 2 parts) and $\frac{2}{4}$ (2 of 4 parts). They're equivalent! Picture B shows $\frac{1}{2}$ and $\frac{1}{7}$, which are clearly different sizes.
- The correct answer is A, C.** **(4.MD.B.4)** A is correct: $\frac{2}{4}$ in has 3 X marks. C is correct: $\frac{3}{4}$ in has 3 X marks. Statement B is false: only 1 ribbon measured $\frac{1}{4}$ in. Statement D is false: the range is $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$, not $\frac{3}{4}$. Statement E is false: the total is 7 ribbons, not 8.
- Choice A is correct.** **(4.NF.B.3)** The top bar has two equal colors: light is $\frac{4}{8}$ and dark is $\frac{4}{8}$. Together: $4 + 4 = 8$, giving $\frac{8}{8}$. ✓
- Choice B is correct.** **(4.MD.C.5)** The diagram shows a 110° angle, meaning it contains **110** one-degree angles.
- Choice C is correct.** **(4.G.A.3)** A regular pentagon (5 equal sides) has five lines of balance. Each line passes through one corner and the middle of the opposite side. The answer is **5** lines of symmetry.
- Choice B is correct.** **(4.NF.B.3)** The recipe calls for $\frac{1}{2}$ cup of butter plus $\frac{1}{2}$ cup of sugar. Together: $1 + 1 = 2$ halves, which equals **1** whole cup.
- Choice A is correct.** **(4.NF.B.3)** Look at the bar: 5 equal parts total, and 2 are shaded. So **2** unit fractions of $\frac{1}{5}$ are shaded.
- Choice C is correct.** **(4.NF.C.5)** To convert $\frac{4}{10}$ to hundredths, multiply both the numerator and denominator by 10: $\frac{4}{10} = \frac{40}{100}$.



Ahoy, Math Sailor!

◇ You sailed through 5 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 5 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

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