

4

Colorado CMAS

GRADE 4

MATH

PRACTICE TESTS



5 FULL-LENGTH
PRACTICE TESTS



Standards-Aligned Review with
Mixed Practice and Answer Key



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$

$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



4 Colorado CMAS Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome, Colorado Math Explorer!

Four steady rounds on the Rocky Mountain math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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

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4) What is the value of the digit 5 in the number 5,204?

- A. 5 C. 500
 B. 50 D. 5,000

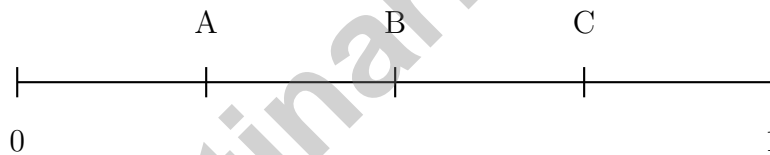
5) If a dot rotates $\frac{1}{8}$ of a full turn, how many degrees does it move?

- A. 30° C. 45°
 B. 35° D. 60°

6) A pattern of numbers follows the rule “add the previous two numbers.” Starting with 3 and 4, what is the 5th term?

- A. 12 C. 16
 B. 14 D. 18

7) Where does 0.5 belong on this number line?



- A. At mark A C. At mark C
 B. At mark B D. Beyond mark C

8) What is $4\frac{5}{6} - 2\frac{1}{6}$?

- A. $2\frac{2}{6}$ C. $2\frac{4}{6}$
 B. $2\frac{3}{6}$ D. $3\frac{3}{6}$



9) The area of a rectangle is found using length \times width. If the length is 18 and width is 16, what is the area?

A. 208

C. 244

B. 324

D. 288

10) A builder has 100 meters of fencing. He uses 35 meters for one garden and 28 meters for another. How much fencing is left?

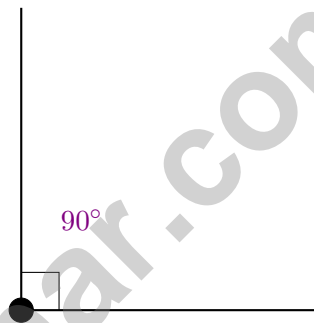
A. 28 m

C. 63 m

B. 37 m

D. 65 m

11)



A right angle shown in purple measures 90 degrees. An obtuse angle would measure:

A. less than 90 degrees

C. between 90 and 180 degrees

B. exactly 90 degrees

D. exactly 180 degrees

12) Diego buys 5 packs of pens. Each pack has 6 pens. He also has 4 old pens. How many pens does he have altogether?

A. 30

C. 34

B. 24

D. 15



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1) Which statement is true about a parallelogram?

- A. It has no parallel sides. C. It has only one pair of parallel sides.
 B. It has two pairs of parallel sides. D. It has four right angles.

2) A non-square rhombus has how many lines of symmetry?

- A. 0 C. 2
 B. 1 D. 4



3)

This bar shows $\frac{3}{4}$ yard of ribbon shaded. If you take 2 ribbons like this, how many yards of ribbon do you have?

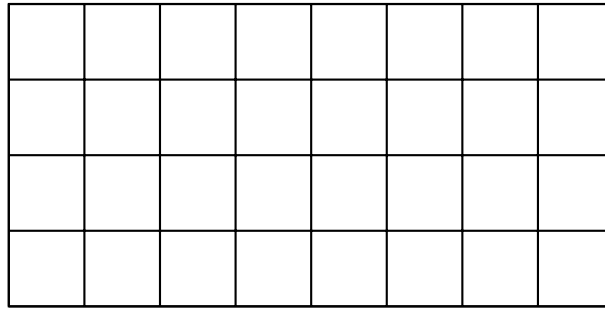
- A. $\frac{6}{4}$ yards (or $1\frac{1}{2}$ yards) C. $\frac{5}{4}$ yards
 B. $\frac{3}{4}$ yard D. $\frac{2}{4}$ yard

4) Keisha ran $\frac{5}{6}$ lap, Liam ran $\frac{3}{4}$ lap, and Mila ran $\frac{4}{5}$ lap. Who ran the shortest distance?



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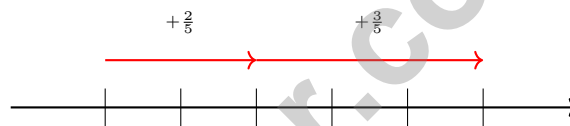
5)



Each grid square is 1 square unit. What is the perimeter of the rectangle?

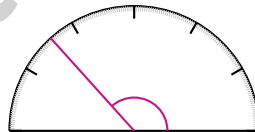
- A. 12 units
- B. 24 units
- C. 32 units
- D. 48 units

6) Which number line shows $\frac{2}{5} + \frac{3}{5} = 1$?



- A. Starts at $\frac{2}{5}$, hops to $\frac{3}{5}$
- B. Starts at 0, hops to $\frac{2}{5}$, then to 1
- C. Starts at 1, hops backward to $\frac{3}{5}$
- D. Starts at 0, hops to $\frac{5}{5}$

7)



What is the measure of this angle?

- A. 120 degrees
- B. 132 degrees
- C. 140 degrees
- D. 128 degrees



- 5) Emma starts reading at 1:20 p.m. and finishes at 2:35 p.m. How many minutes did she read?

- 6) Two rays form an angle with a measure of 80° . If one part of the angle is 32° , what is the measure of the other part?

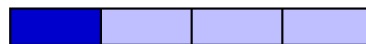
- A. 48° C. 112°
 B. 50° D. 35°

- 7) A growing pattern of rectangles shows:



How many unit squares are in Figure 5?

- A. 8 C. 12
 B. 14 D. 10
- 8) What is $\frac{4}{4} - \frac{1}{4}$?



Remove $\frac{1}{4}$ (dark)
Leaves ?

- A. $\frac{3}{4}$ C. $\frac{7}{4}$
 B. $\frac{3}{8}$ D. $\frac{1}{4}$



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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

- Choice D is correct.** (4.NBT.A.2) “Seventy-eight thousand” = 78,000, so the full number is 78,412. The digit 8 is in the thousands place ✓
- Choice B is correct.** (4.NF.B.4) James eats $\frac{1}{8}$ of the pie each day for 5 days. We multiply: $5 \times \frac{1}{8} = \frac{5}{8}$ of the pie.
- Choice B is correct.** (4.G.A.3) A leaf usually has a center vein running from tip to stem, with identical bumpy edges on both left and right. A vertical line down that center is a perfect line of symmetry. The answer is **1** line of symmetry.
- Choice D is correct.** (4.NBT.A.1) The digit 5 is in the thousands place. Its value is $5 \times 1,000 = 5,000$. ✓
- Choice C is correct.** (4.MD.C.5) One-eighth of the circle is $\frac{1}{8} \times 360^\circ = 45^\circ$.
- Choice D is correct.** (4.OA.B.4) Add the two previous terms: Start with 3, 4. Then $3 + 4 = 7$, $4 + 7 = 11$, $7 + 11 = 18$. The 5th term is **18**.
- Choice B is correct.** (4.NF.C.5) 0.5 represents half. The number line goes from 0 to 1, so 0.5 sits exactly in the middle at mark B.
- Choice C is correct.** (4.NF.B.3) Subtract the wholes: $4 - 2 = 2$. Subtract the fractions: $\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$. The difference is $2\frac{4}{6}$.
- Choice D is correct.** (4.NBT.B.5) Split and calculate: $18 \times (10 + 6) = 180 + 108 = 288$ square units.
- Choice B is correct.** (4.MD.A.2) Step 1: Find total fencing used: $35 + 28 = 63$ meters. Step 2: Subtract from the total: $100 - 63 = 37$ meters. He has **37** meters of fencing left.
- Choice C is correct.** (4.MD.C.5) Obtuse angles are larger than right angles (90 degrees) but smaller than straight angles (180 degrees).
- Choice C is correct.** (4.OA.A.3) Two steps! Step 1: find how many pens are in the packs. $5 \times 6 = 30$. Step 2: add the old pens: $30 + 4 = 34$ pens altogether.
- Choice A is correct.** (4.NBT.A.3) We’re rounding to the nearest hundred, so check the tens digit of each. Option A (6,293): tens digit is $9 \geq 5$, rounds UP to **6,300**. ✓ Option B (6,234): tens digit is $3 < 5$, rounds DOWN to 6,200 (not 6,300). Option C (6,249): tens digit is $4 < 5$, rounds DOWN to 6,200 (not 6,250). Option D (6,251): tens digit is $5 \geq 5$, rounds UP to 6,300 (not 6,200).
- Choice B is correct.** (4.G.A.1) A line segment is just a straight connection between two points with no arrows and no extra stretching. Diagram B shows this perfectly — clean and simple.
- The correct answer is 8.** (4.OA.A.2) Dakota’s 32 beads are 4 times Ryan’s amount. To find Ryan’s, divide: $32 \div 4 = 8$ beads.
- Choice A is correct.** (4.MD.C.7) Since a straight angle measures 180° , subtract the known part: $180^\circ - 125^\circ = 55^\circ$.
- Choice C is correct.** (4.MD.C.6) An obtuse angle opens wider than a right angle (more than 90°) but is not a straight line (less than 180°). Since 120° fits perfectly between these benchmarks, the answer is obtuse.
- The correct answer is A, C.** (4.NBT.B.4) A: $5,234 + 2,345 = 7,579$ ✓. B: $6,789 + 2,456 = 9,245$ (wrong). C: $8,123 + 1,234 = 9,357$ ✓. D: $9,000 + 3,456 = 12,456$ (wrong). E: $4,567 + 3,456 = 8,023$ (wrong). Correct answers: A and C.
- Choice C is correct.** (4.MD.B.4) The shortest sticker is at $\frac{1}{8}$ inch and the longest is at $\frac{4}{8}$ inch. The difference is $\frac{4}{8} - \frac{1}{8} = \frac{3}{8}$ inch.
- Choice A is correct.** (4.G.A.2) A scalene triangle has all three sides of different lengths, with no two sides equal to each other. The absence of tick marks on the sides confirms no sides are equal. The answer is **A**.
- Choice A is correct.** (4.NF.A.1) The shaded wedges in both circles are the same size. The first circle is split into 4 pieces (1 shaded), the second into 8 pieces (2 shaded). They cover the same amount: $\frac{1}{4} = \frac{2}{8}$.
- The correct answer is 3.** (4.OA.A.1) We know the larger amount (12 blue shirts) and the comparison (4 times). To find the smaller amount, divide: $12 \div 4 = 3$ red shirts.
- Choice B is correct.** (4.NF.B.4) All count by fourths: $2 \times \frac{1}{4} = \frac{2}{4}$, $1 \times \frac{1}{4} = \frac{1}{4}$, and $3 \times \frac{1}{4} = \frac{3}{4}$.
- Choice D is correct.** (4.NBT.B.6) Use long division: $3 \div 5 = 0$ r3, bring down the 6 to get $36 \div 5 = 7$ r1, bring down the 4 to get $14 \div 5 = 2$ r4, bring down the 5 to get $45 \div 5 = 9$. The answer is **729**.
- Choice C is correct.** (4.OA.B.4) Divisibility rule for 2: the last digit must be even. 91 ends in 1—odd—so it’s *not* divisible by 2. The others (78, 84, 96) all end in even digits.



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Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 4 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.

Jay Daie

Your Math Scientist

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

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

PERFECT FOR:

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

★ **CONFIDENCE TODAY.
SUCCESS TOMORROW!**

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.



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 & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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