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10 Colorado CMAS




GRADE 3

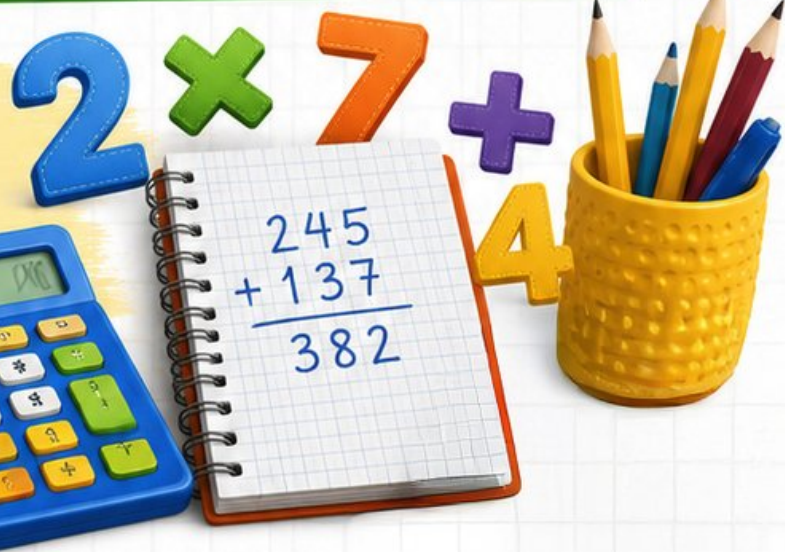
MATH



PRACTICE TESTS



- ✓ Complete Standards Review
 - ✓ Skill Practice
 - ✓ Word Problems and Answer Key
- 



★ ★ ★
**PREPARE
PRACTICE
SUCCEED!**
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



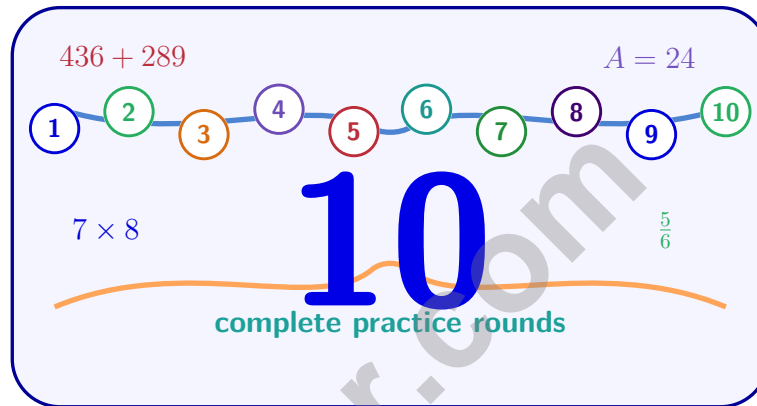
Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Colorado CMAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 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!

Ten steady rounds on the Rocky Mountain math route

This book gives you ten full Grade 3 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Colorado book.
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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& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	40
★ Practice Test 4	_____	53
★ Practice Test 5	_____	65
★ Practice Test 6	_____	77
★ Practice Test 7	_____	89
★ Practice Test 8	_____	100
★ Practice Test 9	_____	113
★ Practice Test 10	_____	126
Practice Test Answer Keys	_____	137
Practice Test Answers and Explanations	_____	143

1) Look at the fact family table:

$7 \times 6 = 42$	$6 \times 7 = 42$
$42 \div 7 = 6$	$42 \div 6 = 7$

If one factor is 7 and the product is 42, what is the other factor?

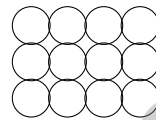
$$7 \times \square = 42$$

A. 8

C. 5

B. 7

D. 6



2)

This array shows 3 rows of 4 circles each. What is 3×4 ?

A. 7

C. 10

B. 15

D. 12

3) Lily has 6 whole crayons. Which shows this as a fraction?

A. $\frac{1}{6}$

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

B. $\frac{6}{1}$

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

4) A picture graph shows flowers. Each flower symbol is 3 flowers. Pile 1 has 4 symbols, Pile 2 has 5 symbols. What is the total number of flowers?

A. 9

C. 15

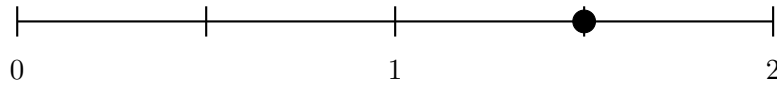
B. 12

D. 27

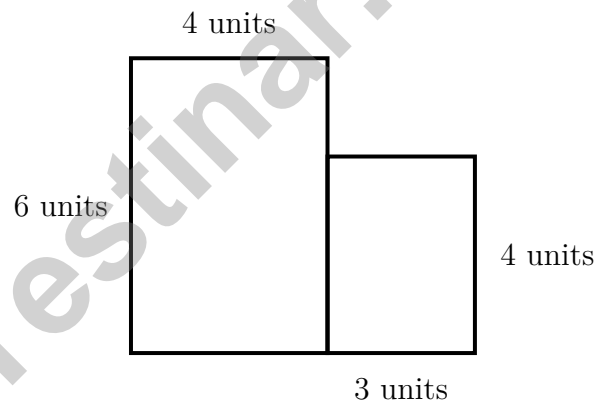


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- 5) A number line goes from 0 to 2 with 4 equal parts. What number is marked by the dot?



- A. $\frac{1}{2}$
 C. $\frac{3}{2}$
 B. 1
 D. $1\frac{1}{2}$
- 6) A number line from 0 to 1 has tick marks that divide it into equal parts. There are 5 tick marks total (counting 0 and 1). How many equal parts are there?
- A. 3
 C. 5
 B. 4
 D. 6
- 7) An L-shaped playground is divided by dashed lines. The left rectangle is 4 units by 6 units. The right rectangle is 3 units by 4 units. What is the total area?



- A. 36 sq units
 C. 12 sq units
 B. 24 sq units
 D. 72 sq units



8) What is 7×90 ?

- A. 63 (forgot the zero) C. 79 (added the digits)
 B. 6300 (added two zeros) D. 630

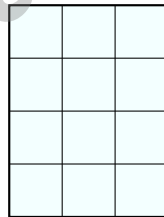
9) Olivia buys 4 bags of candy with 8 pieces in each bag. She eats 12 pieces. How many pieces of candy does she have left?

- A. 20 C. 32
 B. 25 D. 35

10) Mia draws a number line from 0 to 1 with 4 equal parts. She skip-counts by fourths: $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}$. Compare $\frac{2}{4}$ and $\frac{3}{4}$. How many fourths apart are they?

- A. 1 fourth C. 3 fourths
 B. 2 fourths D. 4 fourths

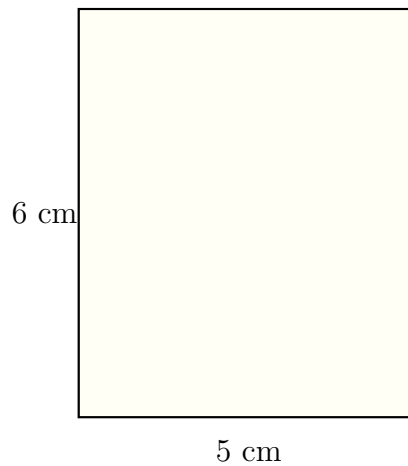
11) Ben counts unit squares to find the area of a shape. He counts 12 unit squares. What is the area?



- A. 6 square units C. 12 square units
 B. 10 square units D. 24 square units



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1)

A rectangular notebook is 5 centimeters wide and 6 centimeters tall. Find the area.

- A. 11 sq cm C. 22 sq cm
 B. 30 sq cm D. 60 sq cm

2) A soup recipe needs 2000 mL of broth. Ben has 1500 mL. How much more broth does he need?

- A. 400 mL C. 1000 mL
 B. 500 mL D. 1500 mL

3) A pizza is cut into 8 equal slices. What fraction represents one slice?

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

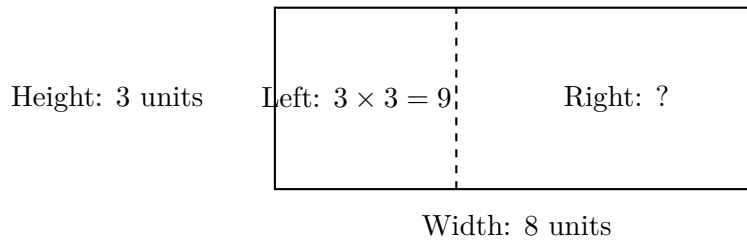
4) There are 3 tables. Each table has 9 children sitting at it. How many children are there altogether?

- A. 6 C. 30
 B. 12 D. 27



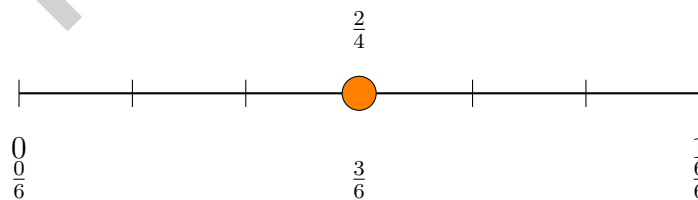
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5) A rectangle shown with a split:



If the total area is 24, what is the right part's area?

- A. 15 square units C. 12 square units
 B. 5 square units D. 8 square units
- 6) A soccer practice starts at 4 : 05 PM and ends at 5 : 28 PM. How long is practice?
- A. 1 hour 17 minutes C. 1 hour 23 minutes
 B. 1 hour 20 minutes D. 1 hour 30 minutes
- 7) A baker makes 54 cookies and packs them equally into 9 boxes. He then sells 5 boxes. How many cookies did he sell?
- A. 6 C. 45
 B. 30 D. 54
- 8) Look at the number line. Which fraction equals $\frac{2}{4}$?



- A. $\frac{1}{4}$ C. $\frac{3}{4}$
 B. $\frac{3}{6}$ D. $\frac{3}{8}$

1) What is $620 - 387$?

A. 233

C. 333

B. 243

D. 343

2) Find $16 \div 2$.

3) Which whole number equals $\frac{8}{4}$?

A. 2

C. 1

B. 4

D. 8

4) A rectangle has a width of 3 feet and a length of 8 feet. The rectangle has 8 rows with 3 unit squares in each row. Find the area by adding: $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = ?$

A. 11 sq ft

C. 24 sq ft

B. 16 sq ft

D. 32 sq ft

5) Which comparison is true?

A. $\frac{4}{8} > \frac{4}{4}$ ($4/4 = \text{whole}$)

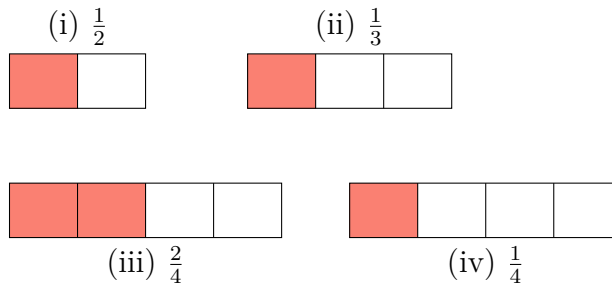
C. $\frac{4}{8} = \frac{4}{4}$

B. $\frac{4}{8} < \frac{4}{4}$ ($4/8 = \text{half}$)

D. $\frac{4}{4} < \frac{4}{8}$ (fewer pieces = more)



6) Which visual pair shows equivalent fractions?



- A. (i) and (ii)
- B. (ii) and (iii)
- C. (i) and (iii)
- D. (iii) and (iv)

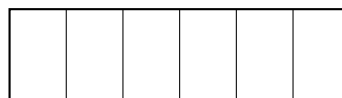
7) Round 283 to the nearest 10.

- A. 280
- B. 283
- C. 290
- D. 300

8) Which product is the greatest?

- A. $7 \times 40 = 280$
- B. $8 \times 30 = 240$
- C. $6 \times 50 = 300$
- D. $9 \times 20 = 180$

9) A rectangle is divided equally. One part is $\frac{1}{6}$ of the whole. How many equal parts is the rectangle divided into?



- A. 4 parts
- B. 8 parts
- C. 3 parts
- D. 6 parts



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Practice Test Answer Keys

How to use this section with a Grade 3 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.** **(3.OA.A.4)** From the fact family, $7 \times 6 = 42$.
- 2) **Choice D is correct.** **(3.OA.A.1)** The array shows 3 rows with 4 circles in each row. So $3 \times 4 = 12$ circles.
- 3) **Choice B is correct.** **(3.G.A.2)** Any whole number n equals $\frac{n}{1}$. So $6 = \frac{6}{1}$.
- 4) **Choice D is correct.** **(3.MD.B.3)** Pile 1: $4 \times 3 = 12$. Pile 2: $5 \times 3 = 15$. Total: $12 + 15 = 27$.
- 5) **Choice D is correct.** **(3.NF.A.2)** The line from 0 to 2 is cut into 4 equal steps, so each step is $\frac{1}{2}$. The third tick is $1\frac{1}{2}$.
- 6) **Choice B is correct.** **(3.NF.A.1)** Five ticks (including 0 and 1) create four equal segments. Each segment is $\frac{1}{4}$.
- 7) **Choice A is correct.** **(3.MD.C.5)** Left: $4 \times 6 = 24$ sq units. Right: $3 \times 4 = 12$ sq units. Total: $24 + 12 = 36$ sq units.
- 8) **Choice D is correct.** **(3.NBT.A.3)** Multiply $7 \times 9 = 63$, then multiply by 10 to get 630: $7 \times 90 = (7 \times 9) \times 10 = 63 \times 10 = 630$.
- 9) **Choice A is correct.** **(3.OA.D.8)** Step 1: Total candy: $4 \times 8 = 32$ pieces. Step 2: Subtract eaten: $32 - 12 = 20$ pieces left. (Choice C is step 1 only.)
- 10) **Choice A is correct.** **(3.NF.A.2)** The distance from $\frac{2}{4}$ to $\frac{3}{4}$ is $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$, or 1 fourth.
- 11) **Choice C is correct.** **(3.MD.C.6)** If a shape covers 12 unit squares, the area is 12 square units.
- 12) **Choice A is correct.** **(3.MD.C.7)** $5 \times (4 + 3) = (5 \times 4) + (5 \times 3) = 20 + 15 = 35$. Splitting the width lets us show the distributive property with area.
- 13) **Choice C is correct.** **(3.MD.C.7)** A square is a rectangle with equal sides. Area = $4 \times 4 = 16$ square cm.
- 14) **Choices B and E are correct.** **(3.OA.B.5)** This problem shows the associative property. When you group factors differently, like $(4 \times 6) \times 2$ or $4 \times (6 \times 2)$, you still get the same product. Option B states the name correctly, and E restates what associative means. A is commutative (switching order), C is distributive (breaking apart a sum), and D relates to multiplying by 1.
- 15) **Choice C is correct.** **(3.NF.A.3)** $\frac{3}{4}$ and $\frac{6}{8}$ both equal three-fourths of a whole.
- 16) **Choice D is correct.** **(3.OA.A.2)** The array shows 12 items arranged in 4 rows with 3 items in each row. That division sentence is $12 \div 4 = 3$.
- 17) **The correct answer is 64 tiles.** **(3.MD.C.5)** This emphasizes improvised/real units (square meter tiles). Count the rows: 8 rows with 8 tiles per row. Total: $8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 = 64$ square meter tiles cover the garden.
- 18) **Choice B is correct.** **(3.NF.A.3)** $\frac{1}{3} = \frac{2}{6}$ and $\frac{2}{8} = \frac{1}{4}$. But $\frac{1}{2}$ is not equivalent to $\frac{1}{3}$.
- 19) **Choice A is correct.** **(3.NF.A.2)** Sandwich A has $\frac{3}{4}$ left. Sandwich B has $\frac{6}{8}$ left. $\frac{3}{4} = \frac{6}{8}$.
- 20) **Choice C is correct.** **(3.MD.A.2)** Subtract: $1000 - 750 = 250$ mL needed.
- 21) **The correct answer is $\frac{1}{4}$.** **(3.NF.A.1)** One piece out of 4 equal pieces is $\frac{1}{4}$.
- 22) **Choice D is correct.** **(3.OA.C.7)** $5 \times 9 = 45$. Count by 5s: 5, 10, 15, 20, 25, 30, 35, 40, 45.
- 23) **Choice A is correct.** **(3.NF.A.3)** Same numerator (1): both fractions take 1 piece from their bar. But the first bar is divided in half (larger piece), the second in thirds (smaller piece). One half $>$ one third. Visually: the green shaded area is larger in the first bar.
- 24) **The correct answer is 64 square units.** **(3.MD.D.8)** $8 \times 8 = 64$ square units. Perfect square.
- 25) **Choice D is correct.** **(3.OA.A.3)** Multiply: 3 groups \times 8 players per group = 24 players.
- 26) **Choice C is correct.** **(3.OA.D.9)** The pattern adds 3 each week: 3, 6, 9, 12. This is skip counting by 3.
- 27) **Choice D is correct.** **(3.MD.D.8)** Area = length \times width = $10 \times 3 = 30$ square feet.
- 28) **Choice A is correct.** **(3.NBT.A.1)** The tens digit is 4. Since $4 < 5$, round down: 945 rounds to 900.
- 29) **Choice B is correct.** **(3.MD.C.6)** 7 columns \times 4 rows = 28 unit squares.
- 30) **Choice C is correct.** **(3.MD.B.4)** At $7\frac{1}{2}$, there are 3 X's. This is more than at any other length.

Practice Test 2 Answers and Explanations



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Hi, Math Athlete!

◇ 10 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
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- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

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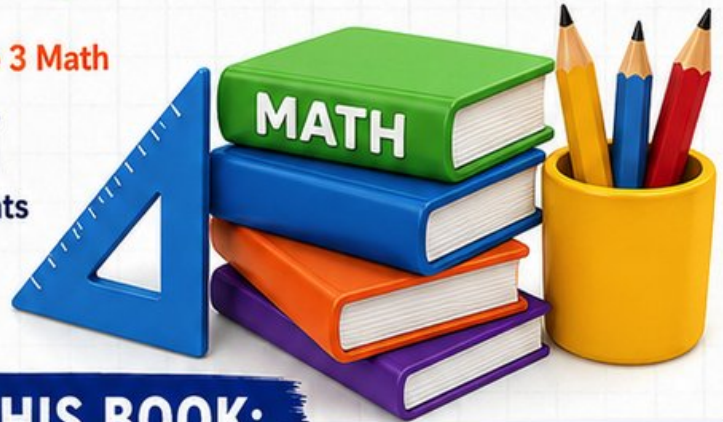
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