

# 5 Colorado

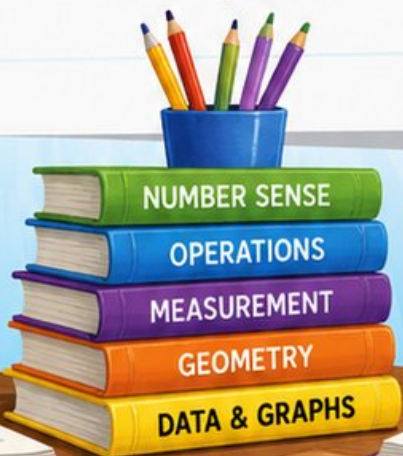
## CMAS

### GRADE 3

# MATH

## PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



**5** FULL-LENGTH  
PRACTICE TESTS



STANDARDS-  
ALIGNED  
PRACTICE



DETAILED  
ANSWER KEYS



CLEAR  
EXPLANATIONS  
TO HELP YOU SUCCEED

x

3

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$$\begin{array}{r} 125 \\ + 37 \\ \hline \end{array}$$



$$24 \div 3 = 8$$

# 5 Colorado CMAS Grade 3 Math Practice Tests

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



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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# Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

## To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Colorado CMAS. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Colorado has mountain passes, high plains, ski towns, and trail maps that make planning important. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

### Notice

Circle key words, units, and numbers before you start.

### Build

Use arrays, number lines, equations, tables, or sketches.

### Verify

Ask, "Does this answer fit the question?"

**Five-checkpoint promise:** I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

# How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

**Best review habit:** Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



## What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	Turn missed items into a clear next step.
Standards Reference	See how Colorado Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.

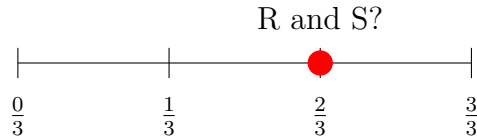


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For more practice  
& answers

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- 1) Two identical number lines go from 0 to 1. Point R is at  $\frac{4}{6}$ . Point S is at  $\frac{2}{3}$ . Are they at the same location?



- A. No, R is left of S.                       C. Yes, at the same spot.
- B. No, S is left of R.                       D. The lines are different.
- 2) Noah goes to the park. He arrives at 3 : 34 PM and leaves at 4 : 19 PM. How long does Noah stay at the park?
- A. 35 minutes                                       C. 45 minutes
- B. 40 minutes                                       D. 50 minutes
- 3) Two rectangles are shown. Rectangle A: length 6, width 3. Rectangle B: length 5, width 4. Which has the larger area?
- A. Rectangle A                                       D. Cannot tell from the information given
- B. Rectangle B
- C. They are equal
- 4) Noah marks  $\frac{3}{8}$  on a number line from 0 to 1 divided into 8 equal parts. Then he marks  $\frac{5}{8}$ . How many eighths are between these two points?
- A. 1 eighth     C. 3 eighths
- B. 2 eighths     D. 5 eighths

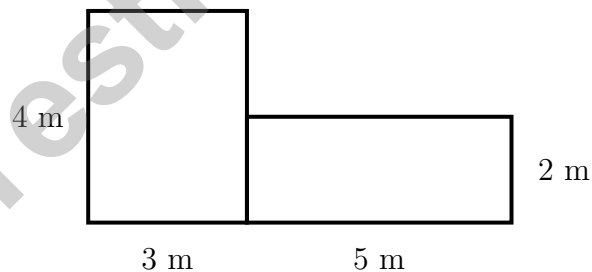


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5)  $\begin{array}{ccccc} \bigcirc & \bigcirc & \bigcirc & \bigcirc & \bigcirc \\ \bigcirc & \bigcirc & \bigcirc & \bigcirc & \bigcirc \end{array}$

What multiplication does this show?

- A.  $2 \times 10 = 20$ 
 C.  $3 \times 5 = 15$   
 B.  $5 \times 5 = 25$ 
 D.  $2 \times 5 = 10$
- 6) Lily shares 18 crayons equally among 6 friends. How many crayons does each friend get?
- A. 2
  C. 4  
 B. 24
  D. 3
- 7) What is  $9 \times 80$ ?
- A. 72 (forgot to multiply by 10)
  C. 89 (added the digits)  
 B. 7200 (added two zeros)
  D. 720
- 8) Sam's bedroom is shaped like an L. One part is 3 m long and 4 m wide. The other part is 5 m long and 2 m wide. What is the total area of his bedroom?

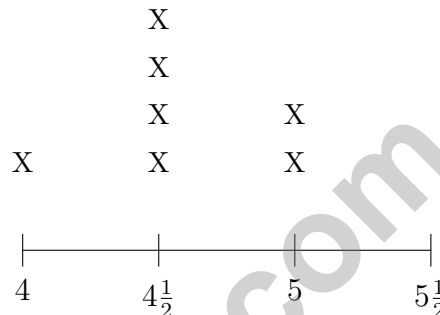


- A. 12 sq m
  C. 22 sq m  
 B. 10 sq m
  D. 120 sq m



- 9) A square has side length 6 meters. What is its perimeter?

- 10) Mia recorded the weights of apples in ounces. The line plot shows:  $4, 4\frac{1}{2}, 5, 5\frac{1}{2}$ .



Which weight has the least X's?

- A. 4 ounces                       C. 5 ounces  
 B.  $4\frac{1}{2}$  ounces                       D.  $5\frac{1}{2}$  ounces
- 11) Which multiplication fact can help you find  $64 \div 8$ ?
- A.  $8 \times 7 = 56$                        C.  $8 \times 9 = 72$   
 B.  $8 \times 6 = 48$                        D.  $8 \times 8 = 64$
- 12) Maria has 328 marbles. She rounds to the nearest 10 to estimate. Then she rounds that answer to the nearest 100. What is the final answer? (This is called double rounding.)
- A. 300                                       C. 330  
 B. 320                                       D. 400



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1) A teacher has two identical whiteboards. Board 1 is divided into 3 sections with 2 written on. Board 2 is divided into 6 sections with 4 written on. Are the written sections the same size?

- A. The boards might be different.       C. Yes, same size.  
 B. No, Board 2 is larger.                 D. No, Board 1 is larger.

2) Aiden calculated  $2 \times 70 = 1400$ . What is the CORRECT answer and what error did Aiden make?

- A. The correct answer is 140; Aiden added two zeros instead of one.       C. The correct answer is 9; Aiden subtracted instead of multiplying.  
 B. The correct answer is 140; Aiden multiplied wrong.                               D. The correct answer is 27; Aiden forgot the zero.

3) Eli ate  $\frac{1}{3}$  of a pizza. Write an equivalent fraction that has 6 as the denominator.

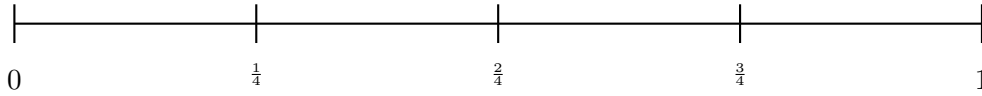
4) A number line has unit fractions that are each  $\frac{1}{4}$  long. The number line goes from 0 to 1. How many unit fractions fit exactly?

- A. 3     C. 5  
 B. 4     D. 6



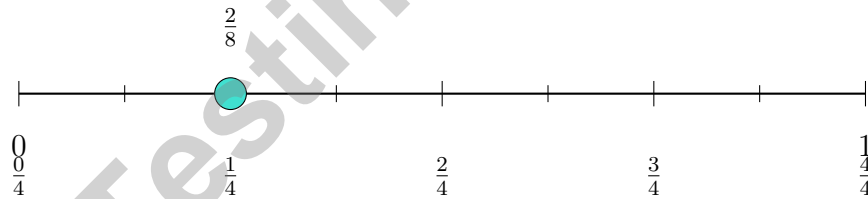
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- 5) On a number line from 0 to 1 divided into 4 equal parts, which fraction is closest to  $\frac{1}{2}$ ?



- A.  $\frac{1}{4}$ 
 C.  $\frac{3}{4}$   
 B.  $\frac{2}{4}$ 
 D.  $\frac{1}{2}$  is not on this line
- 6) A picture graph shows apples in baskets. The key says each apple symbol represents 5 apples. Basket A has 2 symbols and Basket B has 4 symbols. How many apples are there in total in both baskets?

- 7) Which fraction is equivalent to  $\frac{1}{4}$ ?



- A.  $\frac{2}{8}$ 
 C.  $\frac{1}{3}$   
 B.  $\frac{3}{8}$ 
 D.  $\frac{2}{4}$

- 1) Marcus has 15 toy cars and his friend gives him 9 more. They divide all the cars equally among 3 children. Let  $m$  be the number of cars each child gets. Which equation is correct?
- A.  $m = (15 + 9) \div 3$                        C.  $m = (15 + 9) - 3$   
 B.  $m = 15 + 9 \div 3$                        D.  $m = 15 \times 9 \div 3$
- 2) A number line from 0 to 1 is divided into 5 equal parts. What is the length of each part?
- A.  $\frac{1}{5}$      C.  $\frac{5}{1}$   
 B.  $\frac{5}{5}$      D.  $\frac{1}{1}$
- 3) A garden is divided into 6 equal sections. What unit fraction represents one section?
- A.  $\frac{6}{1}$      C.  $\frac{5}{6}$   
 B.  $\frac{1}{6}$      D.  $\frac{1}{7}$
- 4) A toy store organizes action figures into display cases. Each case has 3 rows with 5 figures in each row. The store has 2 display cases. How many figures are on display altogether?
- A. 30     C. 8  
 B. 15     D. 10
- 5) Sam solved this problem:  $\square \times 8 = 56$ . He wrote the answer  $\square = 7$ . Is his answer correct?
- A. Yes, because  $7 \times 8 = 56$ .                       C. No, the correct answer is 8.  
 B. No, the correct answer is 6.                       D. No, the correct answer is 9.



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6) Ben bought 3 packs of erasers. Each pack has 8 erasers. How many erasers did Ben buy?

A.  $8 \times 3 = 24$

C.  $3 \times 3 = 9$

B.  $3 + 8 = 11$

D.  $8 + 8 = 16$

7) A sack of potatoes weighs 10 kg. A basket of carrots weighs 3000 g. Which weighs more?

A. Potatoes

C. They weigh the same

B. Carrots

D. Cannot determine

8) A picture graph shows toy soldiers in a collection. Each soldier drawing is 10 soldiers. Carlos has 3 drawings. How many soldiers does Carlos have?

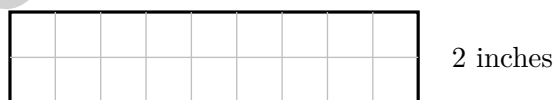
A. 13

C. 30

B. 20

D. 40

9) Write the whole number 4 as a fraction with denominator 1.



10) 9 inches

Count the unit squares in the grid. What is the area?

A. 11 sq in

C. 18 sq in

B. 20 sq in

D. 36 sq in



## 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

- Choice C is correct. **3.NF.A.3a**  $\frac{4}{6} = \frac{2}{3}$ . Both equal two-thirds.
- Choice C is correct. **3.MD.A.1** From 3 : 34 to 4 : 34 is 1 hour or 60 minutes. From 4 : 19 to 4 : 34 is 15 minutes. So from 3 : 34 to 4 : 19 is  $60 - 15 = 45$  minutes.
- Choice B is correct. **3.MD.C.7** Rectangle A:  $6 \times 3 = 18$  sq units. Rectangle B:  $5 \times 4 = 20$  sq units.  $20 > 18$ , so B is larger.
- Choice B is correct. **3.NF.A.2b** The distance from  $\frac{3}{8}$  to  $\frac{5}{8}$  is  $\frac{5}{8} - \frac{3}{8} = \frac{2}{8}$ , which is 2 eighths.
- Choice D is correct. **3.OA.A.1** The picture shows 2 rows with 5 circles in each row. So  $2 \times 5 = 10$  or  $5 \times 2 = 10$ .
- Choice D is correct. **3.OA.A.2**  $18 \div 6 = 3$ . The total crayons are divided equally among the friends.
- Choice D is correct. **3.NBT.A.3** Multiply  $9 \times 8 = 72$ , then multiply by 10 to get 720:  $9 \times 80 = (9 \times 8) \times 10 = 72 \times 10 = 720$ .
- Choice C is correct. **3.MD.C.7d** Part 1:  $3 \times 4 = 12$  sq m. Part 2:  $5 \times 2 = 10$  sq m. Total:  $12 + 10 = 22$  sq m.
- The correct answer is 24 meters. **3.MD.D.8**  $P = 4 \times 6 = 24$  m.
- Choice D is correct. **3.MD.B.4** At  $5\frac{1}{2}$ , there are zero X's. All other values have at least one X.
- Choice D is correct. **3.OA.C.7** If  $8 \times 8 = 64$ , then  $64 \div 8 = 8$ . Multiplication and division are related.
- Choice A is correct. **3.NBT.A.1** First round 328 to nearest 10: ones digit is  $8 \geq 5$ , so 328 rounds to 330. Then round 330 to nearest 100: tens digit is  $3 < 5$ , so 330 rounds down to 300. This is a two-step rounding process (double rounding).
- Choice B is correct. **3.MD.C.7b** Area = length  $\times$  width =  $9 \times 3 = 27$  square yards.
- Choice D is correct. **3.OA.D.8** Step 1: Toys per crate:  $90 \div 9 = 10$  toys. Step 2: Crates remaining:  $9 - 4 = 5$  crates. Total toys:  $5 \times 10 = 50$  toys.
- Choice B is correct. **3.NF.A.3b** Multiply numerator and denominator by 2:  $\frac{2 \times 2}{4 \times 2} = \frac{4}{8}$ .
- The correct answer is 20 unit squares. **3.MD.C.5a** Multiply length by width:  $5 \text{ ft} \times 4 \text{ ft} = 20$  square feet, which equals 20 unit squares of 1 ft each.
- Choices A and B are correct. **3.NF.A.2**  $\frac{1}{2} = \frac{2}{4}$  because both represent the same distance: halfway from 0 to 1. The other fractions name different points.
- Choice C is correct. **3.MD.C.5**  $3 \times 5 = 15$  square units, not 16. The others work:  $4 \times 4 = 16$ ,  $2 \times 8 = 16$ ,  $1 \times 16 = 16$ .
- Choice C is correct. **3.MD.B.3** Team A:  $2 \times 2 = 4$ . Team B:  $3 \times 2 = 6$ . Team C:  $1 \times 2 = 2$ . Total:  $4 + 6 + 2 = 12$ .
- Choice B is correct. **3.NF.A.2a** One tick in the middle divides into 2 equal parts.
- Choice B is correct. **3.MD.C.5b** Count the rows: 9 rows. Count across: 6 unit squares per row. Total:  $6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = 54$  unit squares cover the playground.
- Choice B is correct. **3.MD.A.2** Subtract:  $6 - 2 = 4$  L.
- Choice A is correct. **3.NF.A.1** When something is split into 4 equal parts, one part is called one-fourth, or  $\frac{1}{4}$ .
- Choice C is correct. **3.OA.B.5** An array for  $4 \times 3$  has 4 columns and 3 rows. Option C shows the correct array.
- The correct answer is  $\frac{1}{2}$ . **3.NF.A.3**  $\frac{3}{6}$  equals half of a whole, so the equivalent fraction is  $\frac{1}{2}$ .
- Choice B is correct. **3.NF.A.3d** Same numerator (1), different denominators: halves are bigger pieces than fourths. So  $\frac{1}{2} > \frac{1}{4}$ . Mia ate more because she had one piece of a larger size.
- Choice D is correct. **3.OA.A.3** Divide:  $42 \div 6 = 7$  kennel rooms needed.
- Choice B is correct. **3.NF.A.3c**  $\frac{12}{4}$  means 12 fourths. 4 fourths = 1 whole, so  $12 \div 4 = 3$  wholes.
- Choice A is correct. **3.MD.C.7c** Both rectangles share the dimension 9. When stacked or side by side, they show  $9 \times (2 + 5) = 9 \times 7 = 63$ .
- Choice C is correct. **3.G.A.1** A square is a special type of rectangle. Since a square has 4 right angles, it meets the definition of a rectangle.



## Hi, Math Pilot!

◇ 5 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

### Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

**Pilot tip:** on test day, take off one problem at a time. Trust your training. You earned your wings!

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 Pilot

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Visit [testinar.com/math3](https://testinar.com/math3) for more Grade 3 math resources and practice materials!



$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



Everything Your Child Needs to Succeed in Grade 3 Math!



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