

9

Colorado CMAS

GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY

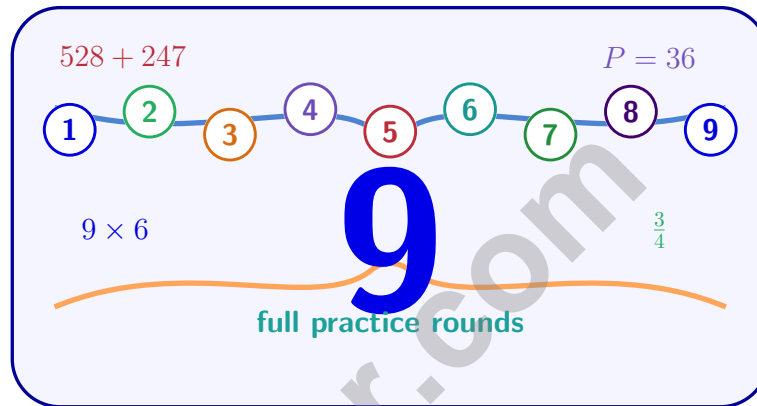


10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Colorado CMAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Colorado, Start Your Nine-Round Math Trail

A curious Grade 3 challenge from first try to confident finish

This book gives you nine chances to practice like a thoughtful Colorado CMAS test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Colorado has mountain passes, snowy peaks, prairie towns, fast rivers, and high-sky views, where careful steps matter. Strong math follows that same idea: reason what the question asks, choose a useful tool, show the work, and estimate before moving on.

Your Colorado Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Colorado review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Colorado, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with CMAS support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Colorado standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



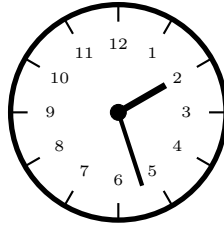
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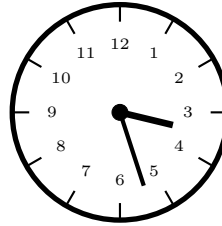
★ Practice Test 1	_____	15
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1) Which clock shows 3 : 27?

Clock 1



Clock 2



A. Clock 1

B. Clock 2

C. Neither

D. Both

7 meters



6 meters

2)

A rectangular wall is 6 meters wide and 7 meters tall. What is the area?

A. 26 sq m

B. 42 sq m

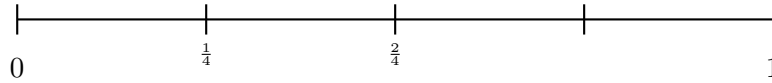
C. 13 sq m

D. 84 sq m

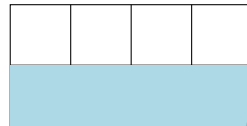


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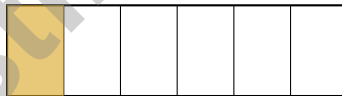
- 3) A number line from 0 to 1 is divided into 4 equal parts. What is the total distance from 0 to $\frac{3}{4}$?



- A. $\frac{1}{4}$ of the line C. $\frac{3}{4}$ of the line
 B. $\frac{2}{4}$ D. 1 whole
- 4) Look at the rectangle divided into 8 equal parts. Which fraction in eighths describes the shaded part?

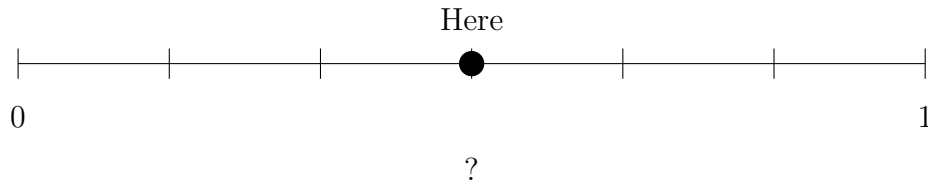


- A. $\frac{1}{8}$ C. $\frac{4}{8}$
 B. $\frac{2}{8}$ D. $\frac{3}{8}$
- 5) A rectangle is divided into equal parts. Ben needs to shade $\frac{1}{6}$ of the rectangle. The rectangle has 6 equal parts. How many parts should Ben shade?



- A. 0 parts C. 2 parts
 B. 1 part D. 3 parts

6) Which two fractions represent the same point on a number line?



- A. $\frac{2}{4}$ and $\frac{3}{6}$
- B. $\frac{3}{8}$ and $\frac{4}{8}$

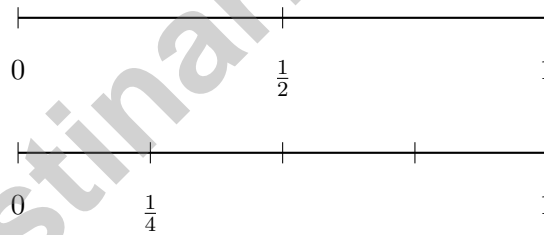
- C. $\frac{1}{3}$ and $\frac{3}{6}$
- D. $\frac{1}{2}$ and $\frac{2}{3}$

7) What is 7×60 ?

- A. 67
- B. 76

- C. 420
- D. 4800

8) Two number lines both show 0 to 1. One is divided into 2 parts, another into 4 parts. Which unit fraction is bigger?



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

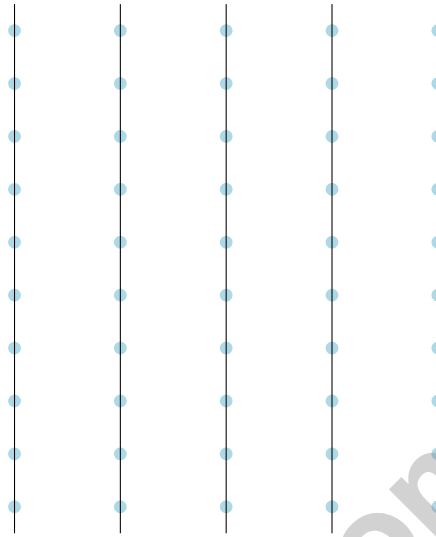
- C. They are equal
- D. Cannot compare

9) Find the perimeter of a 9 cm by 4 cm rectangle.



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1) How many units are in this array?

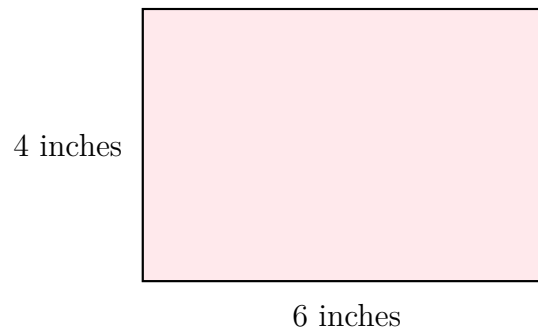


$5 \times 10 = ?$

- A. 15
- C. 510
- B. 50
- D. 105

2) Which fraction is NOT equivalent to $\frac{2}{4}$?

- A. $\frac{1}{2}$
- C. $\frac{4}{8}$
- B. $\frac{3}{6}$
- D. $\frac{2}{3}$



3)

A rectangular tile is 6 inches long and 4 inches wide. Find the area.

- A. 24 sq in C. 10 sq in
 B. 20 sq in D. 12 sq in

4) Priya has 8 packs of trading cards. Each pack has 6 cards. How many cards does she have in all?

- A. 42 cards C. 56 cards
 B. 14 cards D. 48 cards

5) A 8×5 rectangle is tiled into two smaller rectangles by a horizontal line. If one rectangle is 8×3 , what is the area of the other?

- A. 16 C. 40
 B. 24 D. 14



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1) What number makes the equation true?

$$\square \div 4 = 6$$

A. 10

C. 28

B. 18

D. 24

2) Which repeated addition matches 5×10 ?

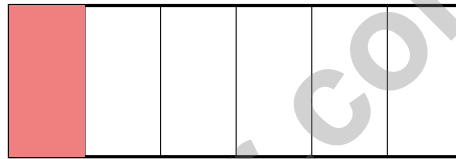
A. $5 + 5 + 5$

C. $10 + 10 + 10 + 10 + 10$

B. $10 + 5$

D. $5 + 10$

3) Look at the rectangle below. It is divided into 6 equal parts, and one part is shaded.



What fraction is shaded?

A. $\frac{5}{6}$

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

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

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

4) Which shape has an area of 20 square units?

A. A 2×8 rectangle

C. A 3×6 rectangle

B. A 4×5 rectangle

D. A 2×9 rectangle

5) Which statement is true about rectangles and rhombuses?

A. All rectangles are rhombuses

D. Rectangles have equal sides like rhombuses do

B. All rhombuses are rectangles

C. Both are quadrilaterals (4-sided figures)



- 6) A room is 7 feet long and 4 feet wide. Explain how you would count the unit squares in this rectangle. Would you count by rows or by columns? Show your work.



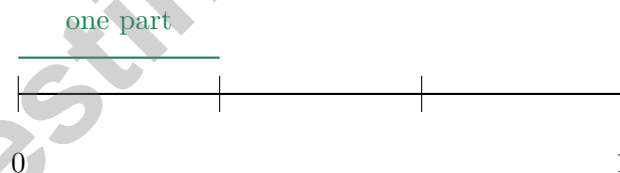
- 7) A rectangular painting is 12 inches wide and 6 inches tall. What is the area of the painting?

- A. 36 sq in C. 18 sq in
 B. 72 sq in D. 66 sq in

- 8) What is 555 rounded to the nearest 10?

- A. 550 C. 560
 B. 555 D. 600

- 9) Look at this number line divided equally from 0 to 1. What is the unit fraction?



- A. $\frac{1}{3}$ C. $\frac{1}{4}$
 B. $\frac{1}{2}$ D. $\frac{1}{5}$



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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 B is correct.** **(3.MD.A.1)** At 3 : 27, the minute hand points to 27 minutes, just past the 5. The hour hand is between 3 and 4, just past 3. Clock 2 shows this accurately.
- 2) **Choice B is correct.** **(3.MD.D.8)** Area = width \times height = $6 \times 7 = 42$ square meters.
- 3) **Choice D is correct.** **(3.NF.A.2)** $\frac{4}{4}$ means all 4 fourths. That is one whole, so the distance from 0 is 1.
- 4) **Choice C is correct.** **(3.NF.A.3)** The rectangle has 8 equal parts and 4 are shaded, so the shaded fraction written in eighths is $\frac{4}{8}$.
- 5) **Choice B is correct.** **(3.G.A.2)** $\frac{1}{6}$ of a rectangle divided into 6 parts means shading 1 part.
- 6) **Choice A is correct.** **(3.NF.A.2)** Both fractions equal one-half and represent the same point on a number line.
- 7) **Choice C is correct.** **(3.NBT.A.3)** Multiply $7 \times 6 = 42$, then add one zero: $7 \times 60 = 420$.
- 8) **Choice A is correct.** **(3.NF.A.1)** Fewer parts mean larger individual pieces. $\frac{1}{2} > \frac{1}{4}$.
- 9) **The correct answer is 26 centimeters.** **(3.MD.D.8)** $2(9) + 2(4) = 18 + 8 = 26$ centimeters.
- 10) **Choice A is correct.** **(3.NF.A.3)** Both bars show the same amount shaded. $\frac{1}{2}$ and $\frac{2}{4}$ are equal.
- 11) **Choice B is correct.** **(3.NF.A.1)** Sam eats $\frac{1}{4}$ and Mia eats $\frac{1}{4}$. Together: $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$ is eaten, so $\frac{2}{4}$ remains.
- 12) **Choice D is correct.** **(3.OA.A.3)** Divide: $54 \div 9 = 6$ flowers per bouquet.
- 13) **Choices A and B are correct.** **(3.MD.C.5)** A is correct: $2 \times 6 = 12$ square units. B is correct: $3 \times 4 = 12$ square units. C is wrong: $3 \times 3 = 9$. D is wrong: $5 \times 2 = 10$. E is wrong: $4 \times 2 = 8$.
- 14) **Choice C is correct.** **(3.MD.A.2)** Add: $5 + 2 = 7$ kg.
- 15) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 8. Since $8 \geq 5$, round up: 289 rounds to 300.
- 16) **Choice A is correct.** **(3.OA.A.2)** If $3 \times 6 = 18$, then the related division facts are $18 \div 3 = 6$ and $18 \div 6 = 3$.
- 17) **Choice A is correct.** **(3.OA.A.4)** Multiply: $4 \times 7 = 28$ stickers. The unknown is 28.
- 18) **Choice C is correct.** **(3.G.A.1)** A diagonal divides a square into two congruent right triangles.
- 19) **Choice C is correct.** **(3.MD.C.6)** Area = $10 \times 5 = 50$ square centimeters.
- 20) **Choice B is correct.** **(3.NF.A.2)** $\frac{8}{8} = 1$ and $\frac{16}{8} = 2$. Since $2 > 1$, $\frac{16}{8}$ is larger.
- 21) **Choice D is correct.** **(3.OA.D.8)** Step 1: Desks in rows: $4 \times 6 = 24$ desks. Step 2: Add more: $24 + 8 = 32$ desks total.
- 22) **The correct answer is $\frac{1}{2}$.** **(3.NF.A.3)** $\frac{1}{2}$ is larger, so it is closer to 1.
- 23) **Choice D is correct.** **(3.NBT.A.2)** Add: $312 + 289 = 601$. Ones: $2 + 9 = 11$ (write 1, carry 1). Tens: $1 + 8 + 1 = 10$ (write 0, carry 1). Hundreds: $3 + 2 + 1 = 6$.
- 24) **Choice D is correct.** **(3.OA.A.1)** 5 pots with 6 flowers each means 5 groups of 6. So $5 \times 6 = 30$ flowers.
- 25) **Choice A is correct.** **(3.G.A.2)** Any whole number with denominator 1 equals that number. $5 = \frac{5}{1}$. Check: (B) is all fifths, (C) is a unit fraction, (D) is not whole.
- 26) **Choice D is correct.** **(3.OA.D.9)** The cost goes up by \$5 each time. Five toys cost $5 \times 5 = \$25$.
- 27) **Choice D is correct.** **(3.OA.B.6)** The missing number is the product: $6 \times 7 = 42$. This fact family contains $6 \times 7 = 42$, $7 \times 6 = 42$, $42 \div 6 = 7$, and $42 \div 7 = 6$.
- 28) **Choice D is correct.** **(3.OA.C.7)** $56 \div 7 = 8$ cookies in each box. Verify: $8 \times 7 = 56$. Distractors: C is $56 - 7$; D is 7×9 .
- 29) **The correct answer is 39 square meters.** **(3.MD.C.5)** First rectangle: $6 \times 4 = 24$ sq m. Second rectangle: $5 \times 3 = 15$ sq m. Total: $24 + 15 = 39$ sq m.
- 30) **Choice B is correct.** **(3.MD.C.7)** Adding the width 4 five times: $4 + 4 + 4 + 4 + 4 = 20$. This is the same as $5 \times 4 = 20$ square units.

Practice Test 2 Answers and Explanations



Hi, Brave Explorer!

◇ What a trip! You explored 9 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 9 tests, you learned a lot. You are a stronger math explorer now. ★

Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

Explorer tip: on test day, use the tools you packed. You have the skills. You are ready!

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

Jay Daie

Your Math Trail Guide

STRONG TODAY. SUCCESS TOMORROW.

Give your child the tools they need to excel in **Grade 3 Math!** This book includes **9 complete practice tests** that follow grade-level standards and help students build confidence, sharpen skills, and achieve success.

9
COMPLETE PRACTICE TESTS

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- ✓ Engaging, Varied, and Effective

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Improve Test Readiness

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Achieve Success

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- ✓ Algebraic Thinking
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- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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Aligned to Standards



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