9 Maryland MCAP

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with Mixed Practice and Answer Key

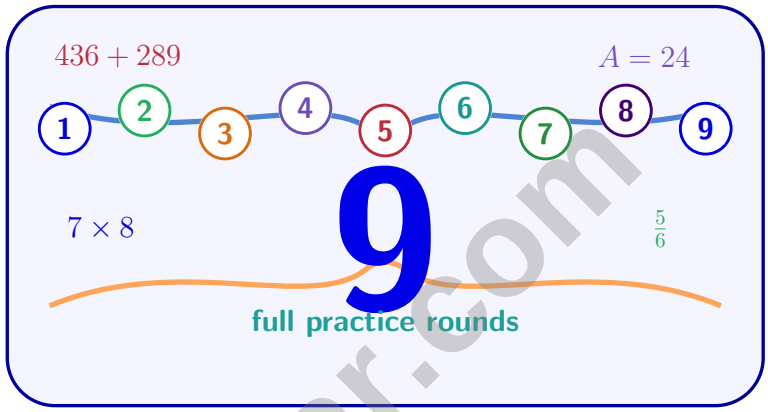
- **9 FULL-LENGTH** PRACTICE TESTS
- **STANDARDS-ALIGNED** REVIEW
- **MIXED PRACTICE** BUILD SKILLS & CONFIDENCE
- **ANSWER KEY** FOR ALL TESTS

PREPARE
PRACTICE
SUCCEED
PERFORM

PRACTICE TODAY.
SUCCEED TOMORROW.

9 Maryland MCAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 4 practice rounds for MCAP, built around bay bridges, crab boats, and confident mixed practice, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari

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Welcome, Maryland Math Explorer!

Nine steady rounds on the Old Line State math route

This book gives you nine full Grade 4 practice tests for MCAP. Each round uses bay bridges, crab boats, and confident mixed practice to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Maryland 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.

How to Use This Book

A ten-session routine for Maryland MCAP 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 Old Line State 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?

Nine tests, 270 questions, and a full MCAP review path

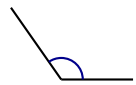
Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	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.

Table of Contents

★ Practice Test 1 ____ 15
★ Practice Test 2 ____ 26
★ Practice Test 3 ____ 38
★ Practice Test 4 ____ 49
★ Practice Test 5 ____ 60
★ Practice Test 6 ____ 71
★ Practice Test 7 ____ 83
★ Practice Test 8 ____ 93
★ Practice Test 9 ____ 105
Practice Test Answer Keys ____ 115
Practice Test Answers and Explanations ____ 121

1) Which angle is acute?

A. 

B. 

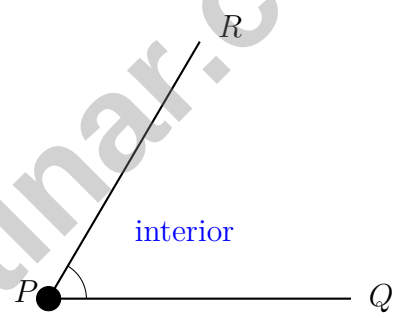
C. 

D. 

☐ A. Diagram A
☐ B. Diagram B
☐ C. Diagram C
☐ D. Diagram D

2) How many 45° angles fit into a full circle?

☐ A. 4
☐ B. 6
☐ C. 8
☐ D. 12

3) 

Which part of the angle is labeled blue?

☐ A. The vertex
☐ B. The sides
☐ C. The interior
☐ D. The exterior

4) A factory packs 144 toys into crates. Each crate holds 12 toys. How many crates are full? If workers find 9 more toys to pack, how many crates total are needed?

☐ A. 12 full crates, 12 total needed
☐ B. 144 crates, 13 total
☐ C. 11 full crates, 12 total needed
☐ D. 12 full crates, 13 total needed

5) A recipe for cookies uses $\frac{2}{5}$ cup of chocolate chips. If you triple the recipe, how many cups of chocolate chips do you need?

6) Subtract: $45{,}000 - 18{,}234 = ?$

☐ A. 26,766
☐ B. 27,766
☐ C. 26,776
☐ D. 28,766

7) Maya measured her pencil and found it is 15 centimeters long. How many millimeters is this?

☐ A. 1.5
☐ B. 15
☐ C. 150
☐ D. 1,500

8) A school cafeteria prepares 24 trays of food. Each tray serves 12 people. How many people can be served?

9) What is $5 \times \frac{1}{6}$?

☐ A. $\frac{1}{30}$
☐ B. $\frac{6}{5}$
☐ C. $\frac{5}{6}$
☐ D. $\frac{5}{30}$

10) 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
☐ B. 9
☐ C. 7
☐ D. 6

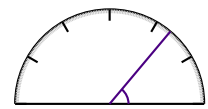
11) Elena shares a chocolate bar into 2 equal pieces. She eats both pieces. Which shows this as unit fractions?

☐ A. $\frac{1}{2}$
☐ B. $\frac{2}{2}$
☐ C. $\frac{1}{2} + \frac{1}{2}$
☐ D. $\frac{1}{1}$

12) What is $3\frac{2}{10} - 1\frac{4}{10}$?

☐ A. $1\frac{4}{10}$
☐ B. $1\frac{5}{10}$
☐ C. $1\frac{6}{10}$
☐ D. $1\frac{8}{10}$

13)



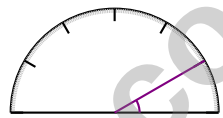
What is the measure of the angle shown?

☐ A. 45 degrees
☐ B. 55 degrees
☐ C. 60 degrees
☐ D. 50 degrees

1) Which inequality is true?

☐ A. $\frac{5}{8} > \frac{7}{8}$
☐ B. $\frac{5}{8} < \frac{1}{2}$
☐ C. $\frac{5}{8} = \frac{7}{8}$
☐ D. $\frac{5}{8} < \frac{7}{8}$

2) Sam has \$0.25. Write this amount as a fraction of a dollar.

3) 

What is the measure of the angle shown?

☐ A. 30 degrees
☐ B. 45 degrees
☐ C. 60 degrees
☐ D. 90 degrees

4) What is $72 \div 8$?

5) If a digit is in the thousands place, and another identical digit is in the ones place, how many times greater is the value of the thousands digit?

☐ A. 10
☐ B. 100
☐ C. 1,000
☐ D. 10,000

6) If an angle measures 35°, how many one-degree angles does it turn through?

☐ A. 3.5 one-degree angles
☐ B. 35 one-degree angles
☐ C. 70 one-degree angles
☐ D. 350 one-degree angles

7) Mia shared a string into 12 equal pieces. She used 9 pieces for a craft. Show this fraction as a sum of unit fractions.

☐ A. Nine copies of $\frac{9}{9}$
☐ B. Nine unit fractions of $\frac{1}{9}$
☐ C. Twelve unit fractions of $\frac{1}{12}$
☐ D. Nine unit fractions of $\frac{1}{12}$

8) Which number sentence is incorrect?

☐ A. $1 \times \frac{1}{8} = \frac{1}{8}$
☐ B. $4 \times \frac{1}{6} = \frac{4}{6}$
☐ C. $5 \times \frac{1}{5} = \frac{5}{10}$
☐ D. $2 \times \frac{1}{3} = \frac{2}{3}$

9) A serving of pasta is $\frac{1}{3}$ pound. How much pasta is in 6 servings?

☐ A. $\frac{1}{18}$ pound
☐ B. $\frac{6}{3}$ pounds (or 2 pounds)
☐ C. $\frac{6}{18}$ pound
☐ D. $\frac{1}{2}$ pound

10) A water jug contains 3 liters. How many milliliters is this?

☐ A. 300
☐ B. 3,000
☐ C. 30,000
☐ D. 300,000

1) Which number is divisible by 10?

☐ A. 45
☐ B. 68
☐ C. 70
☐ D. 82

2) Noah's classroom aquarium holds 36 quarts of water. How many gallons is this?

☐ A. 4
☐ B. 9
☐ C. 12
☐ D. 18

3) Noah says an angle is made of 110 one-degree angles. What is the measure of the angle?

☐ A. 11°
☐ B. 55°
☐ C. 110°
☐ D. 220°

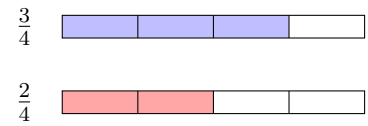
4) A bake sale sells 6 trays of cupcakes. Each tray has 24 cupcakes. They also have 18 leftover cupcakes from yesterday. How many cupcakes do they have in total?

☐ A. 144
☐ B. 140
☐ C. 156
☐ D. 162

5) Sam read 234 pages of a book on Monday. On Tuesday, he read 189 more pages. How many pages did he read in total?

☐ A. 423 pages
☐ B. 413 pages
☐ C. 424 pages
☐ D. 333 pages

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



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

7) A repeating pattern uses colors: red, blue, green, red, blue, green. What color is the 11th item?

☐ A. Red
☐ B. Yellow
☐ C. Green
☐ D. Blue

8) All of the following figures have at least one line of symmetry **except** which one?

☐ A. An equilateral triangle
☐ B. A rectangle
☐ C. A slanted parallelogram with unequal adjacent sides
☐ D. An isosceles triangle

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

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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice C is correct.** 4.G.A.1 An acute angle is small and pointy — less than 90°. Diagram C opens just a tiny bit (around 28°), so it's acute. The others are obtuse or right angles.
2) **Choice C is correct.** 4.MD.C.5 Divide the full circle by the angle size: $360° \div 45° = \mathbf{8}$ angles fit exactly around.
3) **Choice C is correct.** 4.MD.C.5 The blue-labeled region is the interior, the space between the two rays.
4) **Choice D is correct.** 4.OA.A.3 Two parts! First: $144 \div 12 = 12$ full crates. Then the 9 extra toys won't fill a crate but still need one—so we round up: $12 + 1 = 13$ crates total.
5) **The correct answer is $\frac{6}{5}$.** 4.NF.B.4 Multiply the amount by 3: Making 3 batches, each using $\frac{2}{5}$ cup of flour, means we multiply: $3 \times \frac{2}{5} = \frac{6}{5}$ cups.
6) **Choice A is correct.** 4.NBT.B.4 Subtracting from 45,000 takes regrouping across all those zeros. Borrow from the thousands ($5 \to 4$); the chain of zeros becomes 9s except the rightmost, which becomes 10. Now subtract column by column: $10 - 4 = 6$, $9 - 3 = 6$, $9 - 2 = 7$, $4 - 8$ requires another borrow (so $14 - 8 = 6$, ten-thousands $4 \to 3$), and $3 - 1 = 2$. Result: **26,766**. ✓
7) **Choice C is correct.** 4.MD.A.1 Since 1 centimeter = 10 millimeters, multiply: $15 \times 10 = 150$ mm. The answer is **150** mm.
8) **The correct answer is** 288. 4.NBT.B.5 This is a word problem asking for the total. Calculate: $24 \times 12 = 24 \times (10 + 2) = 240 + 48 = \mathbf{288}$ people.
9) **Choice C is correct.** 4.NF.B.4 We take 5 copies of $\frac{1}{6}$ and add them together. Multiply the whole number by the numerator: $5 \times \frac{1}{6} = \frac{5 \times 1}{6} = \frac{5}{6}$. The answer is $\mathbf{\frac{5}{6}}$.
10) **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**.
11) **Choice C is correct.** 4.NF.B.3 Elena ate both pieces of the chocolate bar that was divided into 2 equal pieces. So she ate $\frac{2}{2}$, which as unit fractions is $\mathbf{\frac{1}{2} + \frac{1}{2}}$.
12) **Choice D is correct.** 4.NF.B.3 Since $\frac{2}{10} < \frac{4}{10}$, regroup: $3\frac{2}{10} = 2\frac{12}{10}$. Subtract: $2\frac{12}{10} - 1\frac{4}{10} = \mathbf{1\frac{8}{10}}$.
13) **Choice D is correct.** 4.MD.C.6 The ray lines up perfectly with the 50° mark on the protractor. Since 50° is between 45° and 60° and less than 90°, it's an acute angle. The answer is **50** degrees.
14) **The correct answer is A, C.** 4.NF.B.4 A checkmark: three bars, each $\frac{1}{5}$, total $\frac{3}{5}$. C checkmark: three fifths reached by hops. B uses fourths (wrong). D and E show only one fifth (not three).
15) **Choice C is correct.** 4.G.A.2 A parallelogram is defined by having two pairs of opposite sides that are equal and parallel. A figure is a rectangle only when it also has four right angles at each corner. The answer is **C**.
16) **Choice B is correct.** 4.NF.C.5 The arrow points exactly halfway between 0.6 and 0.7. The midpoint is 0.65.
17) **Choice A is correct.** 4.NF.C.5 The decimal 0.35 reads as "zero point thirty-five," which is named thirty-five hundredths.
18) **Choice C is correct.** 4.NBT.A.1 Step 1: name the values. The 8 in thousands is worth 8,000; the 8 in tens is worth 80. Step 2: divide to compare: $8{,}000 \div 80 = 100$. The thousands 8 is **100** times greater than the tens 8. *Why* 100*?* Two places to the left = two factors of 10, and $10 \times 10 = 100$. ✓
19) **Choice C is correct.** 4.NF.A.1 Find common denominator 40: $\frac{5}{8} = \frac{25}{40}$, $\frac{3}{5} = \frac{24}{40}$, $\frac{7}{10} = \frac{28}{40}$. Since $28 > 25 > 24$, Gina ran farthest.
20) **Choice C is correct.** 4.MD.C.7 Add the two rotations together to find the total: $45° + 35° = \mathbf{80°}$.
21) **The correct answer is $1\frac{3}{5}$.** 4.NF.B.3 One whole is $\frac{5}{5}$, leaving $8 - 5 = 3$ more fifths. So $\frac{8}{5} = 1\frac{3}{5}$ ✓.
22) **Choice C is correct.** 4.MD.A.3 The grid shows 6 units by 2 units. Area $= 6 \times 2 = 12$ sq units.
23) **Choice B is correct.** 4.NF.B.3 Same denominator, same rule: add the numerators ($4 + 5 = 9$), keep the denominator. Answer: $\mathbf{\frac{9}{10}}$.
24) **Choice D is correct.** 4.NF.A.1 Circle A shows $\frac{1}{3}$ shaded (120 degrees). Circle B has 6 parts. Multiply numerator and denominator by 2: $\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$.
25) **Choice D is correct.** 4.OA.A.1 "9 times as many" means multiply by 9: $4 \times 9 = 36$ miles.

Author's Note

Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 9 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

⋆ **Cheerleader truth:** confidence is built by showing up. You showed up 9 times. That's real confidence. It is not pretend! ⋆

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

PRACTICE TODAY. ACHIEVE TOMORROW!

This Grade 4 Math Practice Tests book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

Whether used at home, in the classroom, or for independent review, this book provides meaningful practice that helps students grow stronger with every test.

PERFECT FOR:

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

CONFIDENCE IN MATH. SUCCESS FOR LIFE.

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.

Academic Success
Strengthen skills needed for future learning.

TOPICS COVERED

- Place Value & Number Sense
- Multi-Digit Addition & Subtraction
- Multiplication & Division
- Fractions & Equivalent Fractions
- Geometry & Shapes
- Measurement & Data
- Perimeter & Area
- Word Problems
- Patterns & Algebraic Thinking
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- Prepares Students for Future Success