

# 6 Maryland MCAP

## GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**MASTER KEY MATH CONCEPTS**  
**BUILD CONFIDENCE FOR TEST DAY**

**INCLUDES COMPREHENSIVE ANSWER KEY**  
**ALIGNED STATE STANDARDS**

# 6 Maryland MCAP Grade 4 Math Practice Tests

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



Six 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!

Six steady rounds on the Old Line State math route

This book gives you six 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.

Read

Plan

Check

# 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?

Six tests, 180 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 4–6	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.

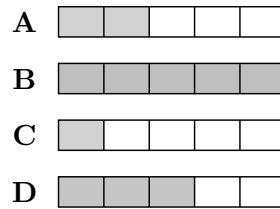


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1) Which fraction bar correctly shows  $2 \times \frac{1}{5}$ ?



A. Picture A

C. Picture C

B. Picture B

D. Picture D

2) Lena has two ribbons. One is  $3\frac{1}{3}$  meters long and the other is  $1\frac{2}{3}$  meters long. If she ties them together, how long is the combined ribbon?

A.  $4\frac{1}{3}$  meters

C. 5 meters

B.  $4\frac{2}{3}$  meters

D.  $5\frac{1}{3}$  meters



4 pieces, each  $\frac{1}{2}$  pound

3)

Each piece above weighs  $\frac{1}{2}$  pound. What is the total weight of all 4 pieces?



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4) Which number is divisible by 5?

A. 84

C. 105

B. 91

D. 113

5) A table is 2 meters long. Convert this to centimeters.

6) A shape has the following attributes: four sides, four equal sides, and no right angles. Which shape could it be?

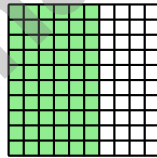
A. Trapezoid

C. Rhombus

B. Rectangle

D. Triangle

7) What decimal does this shaded region represent?



A. 0.60

C. 0.06

B. 0.90

D. 0.09

8) Diego and his friend made a pie. Diego ate  $\frac{2}{6}$  of the pie and his friend ate  $\frac{1}{6}$  of the pie. What fraction of the pie did they eat together?

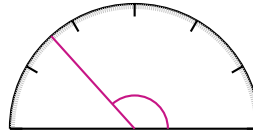
A.  $\frac{3}{6}$

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

B.  $\frac{2}{12}$

D.  $\frac{3}{12}$





9)

What is the measure of this angle?

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

10) Complete the sequence: 2, 5, 10, 17, \_\_

- A. 24                                       C. 28  
 B. 30                                       D. 26

11) A rectangle has an area of 36 square inches. If the length is 9 inches, what is the width?

- A. 3 in                                       C. 5 in  
 B. 4 in                                       D. 6 in

12) Look at the fraction bar divided into 5 equal parts. How many unit fractions of  $\frac{1}{5}$  are shaded?

Shaded parts

- A. 2 unit fractions                       C. 4 unit fractions  
 B. 3 unit fractions                       D. 5 unit fractions



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1) Leo has 11 bags of marbles. Each bag has 32 marbles. How many marbles does Leo have?

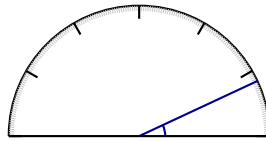
A. 242

C. 315

B. 401

D. 352

2)



What is the measure of the angle shown?

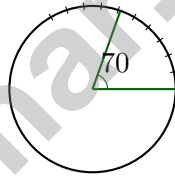
A. 15 degrees

C. 25 degrees

B. 20 degrees

D. 30 degrees

3)



The angle shown measures 70 degrees. How many one-degree angles is this?

A. 35 one-degree angles

C. 140 one-degree angles

B. 70 one-degree angles

D. 7 one-degree angles

4) Is  $\frac{2}{8}$  greater than, less than, or equal to  $\frac{1}{4}$ ?

A. Greater than

C. Equal to

B. Less than

D. Cannot determine



5) What is the main characteristic of a line in geometry?

- A. It has exactly two endpoints       C. It is always horizontal  
 B. It continues forever in both directions       D. It is shorter than a line segment

6) A triangle has one angle that is greater than 90 degrees. What is this triangle called?

- A. Acute triangle       C. Obtuse triangle  
 B. Right triangle       D. Equilateral triangle

7) Use the table to compare the two six-digit numbers:

	100,000s	10,000s	1,000s	100s	10s	1s
Number X	3	2	1	9	4	7
Number Y	3	2	2	0	1	5

Which statement is true?

- A.  $321,947 > 322,015$        C.  $321,947 = 322,015$   
 B. Cannot determine without more digits       D.  $321,947 < 322,015$
- 8) A container of juice contains 8 cups. Mina pours juice into 6 glasses equally. How many cups of juice are in each glass?
- A. 2 cups       C.  $1\frac{1}{3}$  cups  
 B.  $\frac{3}{4}$  cups       D. 14 cups
- 9) A race is 8,800 yards long. How many miles is this?
- A. 2       C. 4  
 B. 3       D. 5



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& answers

1) How many rays form the sides of an angle?

- A. 1 ray                       C. 3 rays  
 B. 2 rays                       D. 4 rays

2) Triple  $\frac{3}{4}$ .

3) The pattern is: 2, 4, 8, 16, 32, ... What is the 7th term?

- A. 64                               C. 256  
 B. 512                               D. 128

4) In the number 1,111, which relationship is true?

Thousands	Hundreds	Tens	Ones
1	1	1	1

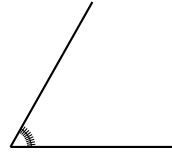
- A. The ones value is 10 times the tens value.       C. The tens value is 100 times the ones value.  
 B. The thousands value is 10 times the tens value.       D. The hundreds value is 10 times the tens value.

5) What is  $6\frac{4}{8} - 3\frac{2}{8}$ ?

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



6)



The angle spans  $60^\circ$ . How many one-degree angles make this angle?

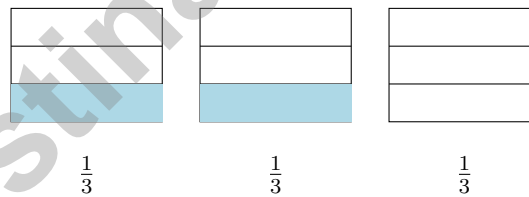
- A.  $60^\circ$ 
 C. 60 one-degree angles  
 B. 30 one-degree angles
  D. 120 one-degree angles

7) The sum  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$  equals which single fraction?

- A.  $\frac{6}{36}$ 
 C.  $\frac{1}{6}$   
 B.  $\frac{6}{6}$ 
 D.  $\frac{6}{12}$

8) Which decimal is the same as  $\frac{40}{100}$ ?

- A. 0.04
  C. 0.004  
 B. 0.40
  D. 4.0



9)

two cans have paint

Three paint cans are shown. Two are  $\frac{1}{3}$  filled each (blue). One is empty. How much total paint is there?

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



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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 A is correct.** (4.NF.B.4) Picture A shows 5 equal parts with 2 shaded. This represents 2 out of 5 parts, or  $2 \times \frac{1}{5}$ .
- Choice C is correct.** (4.NF.B.3) Add the wholes:  $3 + 1 = 4$ . Add the fractions:  $\frac{1}{3} + \frac{2}{3} = \frac{3}{3} = 1$ . Combine:  $4 + 1 = 5$  meters.
- The correct answer is 2.** (4.NF.B.4) All 4 pieces, each weighing  $\frac{1}{2}$  pound, weigh  $4 \times \frac{1}{2} = \frac{4}{2} = 2$  pounds total.
- Choice C is correct.** (4.OA.B.4) Divisibility rule for 5: the last digit must be 0 or 5. 105 ends in 5—yes! So  $105 \div 5 = 21$ . The others end in 4, 1, 3—none of which are 0 or 5.
- The correct answer is 200.** (4.MD.A.1) Since 1 meter = 100 centimeters, multiply:  $2 \times 100 = 200$  cm.
- Choice C is correct.** (4.G.A.2) A rhombus has four equal sides and two pairs of parallel sides but does not have right angles. These attributes match the shape described in the problem. The answer is **C**.
- Choice B is correct.** (4.NF.C.5) The hundredths grid is almost completely shaded: 90 squares out of 100. That equals  $\frac{90}{100} = 0.90 = 0.9$ .
- Choice A is correct.** (4.NF.B.3) Both friends shared from the same pie, so add the fractions:  $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$  of the pie they ate together.
- Choice B is correct.** (4.MD.C.6) The ray points to the  $132^\circ$  mark, which is between  $120^\circ$  and  $150^\circ$ . Since  $132^\circ$  is between  $90^\circ$  and  $180^\circ$ , it's obtuse. The answer is **132** degrees.
- Choice D is correct.** (4.OA.B.4) Look at the differences: 3, 5, 7. The differences increase by 2 each time, so the next difference is 9:  $17 + 9 = 26$ .
- Choice B is correct.** (4.MD.A.3) Use the area formula:  $\text{area} = \ell \times w$ , so  $36 = 9 \times w$ . Divide to find  $w$ :  $w = 36 \div 9 = 4$  in.
- Choice A is correct.** (4.NF.B.3) Look at the bar: 5 equal parts total, and 2 are shaded. So **2** unit fractions of  $\frac{1}{5}$  are shaded.
- The correct answer is 100.** (4.MD.C.7) When two angles combine, add their measures:  $47^\circ + 53^\circ = 100^\circ$ .
- Choice C is correct.** (4.NBT.B.5) Break  $24 \times 36$  into parts:  $24 \times (30 + 6) = 24 \times 30 + 24 \times 6 = 720 + 144 = 864$ .
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: cars left after selling:  $200 - 50 = 150$ . Step 2: pack into boxes of 6:  $150 \div 6 = 25$  complete boxes (no remainder).
- The correct answer is A, C.** (4.OA.A.1) Multiplicative comparisons use the words “times as many.” Choice A (18 is 6 times as many as 3) and choice C (28 is 4 times as many as 7) both fit. Choices B, D, and E use “more” or “less,” which are *additive* comparisons—not multiplicative.
- Choice D is correct.** (4.OA.A.2) “5 times as many” is a multiplication signal. Ahmed bought 5 groups of Rosa’s 7 pencils:  $5 \times 7 = 35$  pencils.
- Choice C is correct.** (4.MD.C.5) A three-quarter turn is  $\frac{3}{4}$  of the full circle:  $\frac{3}{4} \times 360^\circ = 270^\circ$ .
- Choice A is correct.** (4.NF.B.4) Counting by  $\frac{2}{6}$ : first  $\frac{2}{6}$ , then  $\frac{4}{6}$ , then  $\frac{6}{6}$ , then  $\frac{8}{6}$ . That’s choice A!
- Choice A is correct.** (4.MD.C.5) Since the angle turns through 75 one-degree angles, it measures  **$75^\circ$** .
- Choice C is correct.** (4.NBT.A.2) All digits match except the ones place. A has 4 ones, B has 5 ones. Since  $4 < 5$ , 7,264 is less ✓
- Choice A is correct.** (4.NBT.B.4) Add by place value: ones  $1 + 8 = 9$ , tens  $2 + 7 = 9$ , hundreds  $3 + 6 = 9$ , thousands  $4 + 5 = 9$ , ten-thousands  $5 + 4 = 9$ . The sum is **99,999**.
- Choice D is correct.** (4.NBT.A.3) We’re rounding to the nearest hundred. Look at the tens digit: 6. Since  $6 \geq 5$ , we round UP! The hundreds digit goes from 2 to 3, giving us **3,300**. ✓
- Choice B is correct.** (4.NF.C.5) Think of it as 3 tenths. We can write  $\frac{3}{10} = \frac{30}{100} = 0.30 = 0.3$ .
- Choice A is correct.** (4.NF.B.3) Sam and Ming both ate pieces with the same-sized slices. Together:  $2 + 3 = 5$  slices, so  $\frac{5}{6}$  of the pizza.
- Choice D is correct.** (4.NF.A.1) Check D: Cross-multiply  $\frac{2}{5}$  and  $\frac{4}{12}$ :  $2 \times 12 = 24$  and  $5 \times 4 = 20$ . They’re not equal, so D is false. A, B, and C are all true equivalent fractions.



## Hi, Math Champion!

◇ Look what you did! 6 full practice tests. That's hundreds of math problems. You started as a learner. You are now a math athlete. ◇

★ **Champions know:** hard work pays off. You did the hard work. Your math skills are strong because you practiced. ★

### Champion's Stats

- **Focus:** HIGH! You stay on task.
- **Speed:** STRONG! You move at the right pace.
- **Accuracy:** SHARP! You catch your own mistakes.
- **Mindset:** CHAMPION! You believe in yourself.

**Champion tip:** on test day, walk in proud. You trained for this. You are ready!

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 Coach

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

Ideal 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 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.



### Master Key Concepts

Reinforce important skills aligned with grade-level standards.



### 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 & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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