

# 8 Maryland MCAP GRADE 4 PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Maryland MCAP Grade 4 Math Practice Tests

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



Eight 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!

Eight steady rounds on the Old Line State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

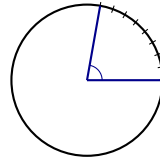
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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1)

Look at the angle shown. It is marked from  $0^\circ$  to  $80^\circ$ . Write the measure of the angle.

2) A sticker weighs  $\frac{1}{5}$  ounce. Emma has 3 stickers. What is the total weight in ounces? A.  $\frac{1}{15}$  ounce C.  $\frac{3}{15}$  ounce B.  $\frac{3}{5}$  ounce D.  $\frac{5}{3}$  ounces

3) A quadrilateral has two pairs of parallel sides and four right angles, but the sides are not all equal. What is it?

 A. Square C. Rhombus B. Rectangle D. Trapezoid

4) Mia's bedroom window is a rectangle. The length is 4 feet and the width is 3 feet. What is the area of the window?

 A. 7 sq ft C. 14 sq ft B. 12 sq ft D. 21 sq ft

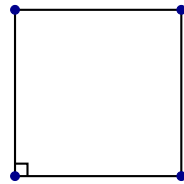
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5) Look at the table below. What is the rule for the pattern?

Input	1	2	3	4
Output	5	10	15	20

- A. Divide by 2
- B. Add 4
- C. Multiply by 4 then add 1
- D. Multiply by 5

6) How many right angles are shown in this figure?



- A. 1 right angle
- B. 2 right angles
- C. 3 right angles
- D. 4 right angles

7) What is  $3\frac{4}{6} + 1\frac{2}{6}$ ?

- A.  $4\frac{5}{6}$
- B.  $5\frac{1}{6}$
- C. 5
- D.  $4\frac{2}{6}$

8) A letter has no line of symmetry. How many lines of symmetry does it have?



9) What is 7,149 rounded to the nearest ten?

A. 7,100

C. 7,140

B. 7,000

D. 7,150

10) Chen rode his bike 18 kilometers on Saturday and 25 kilometers on Sunday. What was the total distance?

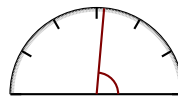
A. 7 km

C. 43 km

B. 25 km

D. 450 km

11)



Ava measures an angle and gets a reading very close to 90 degrees. Is this angle acute, right, or obtuse?

A. Right

C. Obtuse

B. Acute

D. Straight

12) A camp has 47 campers. They rent cabins that fit 6 campers each. How many cabins do they need to rent?

A. 7

C. 6

B. 9

D. 8

13) A school cafeteria serves lunch to 6 grades. Each grade has 35 students. How many students get lunch?

A. 210

C. 240

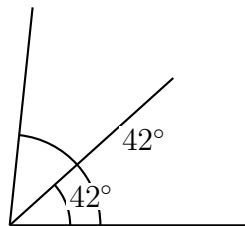
B. 180

D. 270



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- 1) A baker measured flour scoops in eighths of a cup. The measurements are:  $\frac{2}{8}$ ,  $\frac{3}{8}$ ,  $\frac{2}{8}$ ,  $\frac{4}{8}$ ,  $\frac{3}{8}$ ,  $\frac{3}{8}$ . Which measurement appears most often?
- A.  $\frac{2}{8}$  cup                       C.  $\frac{4}{8}$  cup  
 B.  $\frac{3}{8}$  cup                       D.  $\frac{5}{8}$  cup
- 2) Which number is divisible by 3?
- A. 37                                   C. 57  
 B. 44                                   D. 62
- 3) A pot has 8 cups of soup. Two friends share the soup equally. How many cups does each person get?
- A. 2 cups                           C. 6 cups  
 B. 4 cups                           D. 8 cups
- 4) A rectangle has a length of 13 inches and a width of 6 inches. What is its perimeter?
- A. 19 in                               C. 78 in  
 B. 38 in                               D. 39 in
- 5) Two rays meet at a vertex, forming an angle. The angle is divided into two equal parts by another ray. If each part measures  $42^\circ$ , what is the total angle measure?



- A.  $42^\circ$                                    C.  $21^\circ$   
 B.  $84^\circ$                                    D.  $90^\circ$



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6) What is  $4 \times \frac{3}{8}$  as a mixed number?

A.  $\frac{3}{32}$

B.  $\frac{4}{8}$

C.  $\frac{12}{8}$  or  $1\frac{1}{2}$

D.  $\frac{12}{32}$

7) If the pattern “subtract 6” starts at 80, what is the 4th term?

A. 56

B. 74

C. 68

D. 62

8) What is  $\frac{6}{10} + \frac{20}{100}$ ?

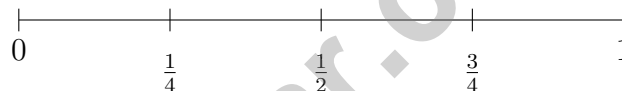
A.  $\frac{26}{100}$

B.  $\frac{80}{100}$

C.  $\frac{26}{110}$

D.  $\frac{62}{100}$

9) Three fractions are shown on the number line. Which is closest to 1?



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

B.  $\frac{1}{2}$

C.  $\frac{3}{4}$

 D. All are equally close

10) Which is the correct ordering from greatest to least?

A. 0.74, 0.47, 0.44, 0.77

B. 0.77, 0.74, 0.47, 0.44

C. 0.44, 0.47, 0.74, 0.77

D. 0.47, 0.44, 0.77, 0.74

11) What is  $6 \times \frac{1}{3}$ ?

A.  $\frac{1}{18}$

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

C.  $\frac{2}{3}$

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



1) Is 29 prime or composite?

A. Not possible

B. Composite

C. Neither

D. Prime

2) Which fraction is equivalent to  $\frac{1}{2}$  and has a denominator of 100?

A.  $\frac{50}{100}$

B.  $\frac{25}{100}$

C.  $\frac{75}{100}$

D.  $\frac{100}{100}$

3) A flower bed had  $\frac{8}{12}$  of its space planted with roses.  $\frac{3}{12}$  of the space was planted with tulips. How much of the flower bed was planted with roses or tulips?

A.  $\frac{5}{12}$

B.  $\frac{11}{12}$

C.  $\frac{11}{24}$

D.  $\frac{10}{12}$

4) What decimal is read as “zero point nineteen”?

A. 19

B. 0.19

C. 1.9

D. 0.019

5) Noah wrote three numbers: 2,500, 3,450, and 1,725. In which number is the value of the hundreds digit the greatest?

A. 2,500

B. 3,450

C. 1,725

D. All three are equal



6) A classroom has 10 desks. The hallway has 3 times as many desks. How many desks are in the hallway?

A. 13

C. 40

B. 20

D. 30

7) Mia is comparing two prices. Socks cost \$0.80 and a pencil costs \$0.08. Which item costs more?

A. The socks (\$0.80)

C. Both cost the same

B. The pencil (\$0.08)

D. The pencil costs 10 times more

8) Write  $2\frac{5}{6}$  as an improper fraction.

9) Which numeral represents “two hundred thirty-four thousand, six hundred seventy-eight”?

A. 243,678

C. 234,687

B. 234,768

D. 234,678

10) Which fraction equals  $\frac{50}{100}$ ?

A.  $\frac{1}{10}$

C.  $\frac{50}{10}$

B.  $\frac{5}{10}$

D.  $\frac{10}{100}$



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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

- The correct answer is 80.** (4.MD.C.5) The angle marked from  $0^\circ$  to  $80^\circ$  measures  $80^\circ$ .
- Choice B is correct.** (4.NF.B.4) Emma has 3 stickers, and each weighs  $\frac{1}{5}$  ounce. We multiply:  $3 \times \frac{1}{5} = \frac{3}{5}$  ounce.
- Choice B is correct.** (4.G.A.2) A rectangle has two pairs of parallel sides and all four right angles. Although opposite sides are equal in length, not all four sides must be equal. The answer is **B**.
- Choice B is correct.** (4.MD.A.3) Window area =  $4 \times 3 = 12$  sq ft.
- Choice D is correct.** (4.OA.B.4) Check the rule:  $1 \times 5 = 5$ ,  $2 \times 5 = 10$ ,  $3 \times 5 = 15$ ,  $4 \times 5 = 20$ . The rule is “multiply by 5”. ✓
- Choice D is correct.** (4.G.A.1) A square is built from four perfect corners, and each corner is exactly  $90^\circ$ . Count them: four corners means four right angles!
- Choice C is correct.** (4.NF.B.3) Add the wholes:  $3 + 1 = 4$ . Add the fractions:  $\frac{4}{6} + \frac{2}{6} = \frac{6}{6} = 1$ . Since  $\frac{6}{6}$  is a whole, combine:  $4 + 1 = 5$ .
- The correct answer is 0.** (4.G.A.3) If a letter has no line of symmetry, the number of lines is zero, so the answer is **0**.
- Choice D is correct.** (4.NBT.A.3) We’re rounding to the nearest ten. Look at the ones digit: 9. Since  $9 \geq 5$ , we round UP! The tens digit changes from 4 to 5, so the answer is **7,150**. ✓
- Choice C is correct.** (4.MD.A.2) Chen rides 18 kilometers on Saturday and 25 kilometers on Sunday. Add:  $18 + 25 = 43$  km. His total distance is **43** kilometers.
- Choice B is correct.** (4.MD.C.6) Ava’s reading of about  $85^\circ$  is less than  $90^\circ$ , which makes it acute—even though it’s close to a right angle. Remember: a right angle must be exactly  $90^\circ$ , not just close. The answer is acute.
- Choice D is correct.** (4.OA.A.3)  $47 \div 6 = 7$  remainder 5. Seven cabins fit 42 campers, but 5 campers still need a place to sleep—so we round up:  $7 + 1 = 8$  cabins.
- Choice A is correct.** (4.NBT.B.5) Use the distributive property:  $6 \times (30 + 5) = 180 + 30 = 210$  students.
- Choice B is correct.** (4.NF.A.1) All have numerator 5. Smaller denominators give bigger pieces. Order by denominator size:  $6 < 8 < 10$ , so  $\frac{5}{6} > \frac{5}{8} > \frac{5}{10}$ .
- The correct answer is A, B.** (4.NBT.A.1) A is true: thousands (1,000)  $\div$  hundreds (100) = 10. B is true: hundreds (100)  $\div$  tens (10) = 10. C, D, E are false. Answer: A and B. ✓
- Choice A is correct.** (4.NF.B.3) A gift was wrapped with ribbon in two parts. Add the ribbon used:  $2\frac{3}{8} + 1\frac{1}{8} = 3\frac{4}{8}$  meters total.
- Choice B is correct.** (4.NF.C.5) The tenths place is the same for both (2 tenths). Compare the hundredths:  $7 > 2$ , so  $0.27 > 0.22$ . Lin’s apple is heavier.
- Choice A is correct.** (4.NF.B.3) Sam colored 5 pieces out of 8 equal parts, so the fraction is  $\frac{5}{8}$ . This is the sum of five unit fractions:  $\frac{5}{8} = \underbrace{\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}}_{5 \text{ copies}}$ .
- Choice B is correct.** (4.MD.C.5) The exterior of an angle is all the space outside the angle.
- Choice D is correct.** (4.NBT.A.2) Thousands: 307, ones: 4. Combined:  $307,000 + 4 = 307,004$  ✓
- Choice B is correct.** (4.NF.B.4) Every fraction in Ava’s list counts by halves:  $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}, \frac{4}{2}, \frac{5}{2}$ . Each one is a multiple of  $\frac{1}{2}$ .
- Choice C is correct.** (4.NF.B.4) The fraction  $\frac{7}{9}$  has numerator 7 and denominator 9. This means 7 copies of  $\frac{1}{9}$ . So the missing denominator is 9.
- Choice C is correct.** (4.NF.C.5) The correct equivalence is  $\frac{6}{10} = \frac{60}{100} = 0.6$ . The option 0.06 is actually  $\frac{6}{100}$ , which is much smaller.
- The correct answer is 67.** (4.MD.C.7) The angle is split into two parts. Subtract to find the missing angle:  $156^\circ - 89^\circ = 67^\circ$ .
- Choice D is correct.** (4.OA.A.2) “2 times as many” means multiply by 2:  $2 \times 50 = 100$  trees.
- Choice B is correct.** (4.NF.C.5) Option B shows all the same value:  $\frac{80}{100}$ , 0.8, and 0.80 are all equal. The trailing zero doesn’t matter.



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## Hi, Math Athlete!

◇ 8 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.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

**Trainer tip:** on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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 Trainer

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

## 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
- ✓ Graphs & Data Interpretation
- ✓ Mathematical Reasoning
- ✓ And More!



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Encourages Independent Learning



Prepares Students for Future Success