

# 5 Maryland MCAP

Standards-Aligned Review with  
Mixed Practice and Answer Key

A+

# 5 Maryland MCAP Grade 4 Math Practice Tests

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



Five 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!

Five steady rounds on the Old Line State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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 shows the correct first step when adding  $3,456 + 2,789$  using regrouping?

- A.  $6 + 9 = 15$  (write 5, carry 1)       C.  $4 + 7 = 11$  (write 1, carry 1)  
 B.  $5 + 8 = 13$  (write 3, carry 1)       D.  $3 + 2 = 5$  (no carry)

2) Which diagram shows two lines that will eventually intersect?

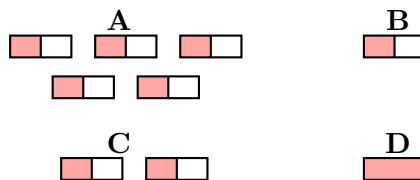


- A. Diagram A       C. Diagram C  
 B. Diagram B       D. Diagram D

3) Nina has 4 apples. Her friend Tara has 6 times as many apples. How many apples does Tara have?

- A. 10       C. 20  
 B. 2       D. 24

4) Which bar model represents  $5 \times \frac{1}{2}$ ?



- A. Top-left picture       C. Bottom-left picture  
 B. Top-right picture       D. Bottom-right picture



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5) Round 93,847 to the nearest hundred.

A. 94,000

C. 93,900

B. 93,850

D. 93,800

6) Is 16 prime or composite?

A. Prime

C. Neither

B. Not a whole number

D. Composite

7) A school buys 4 cases of pencils. Each case has 50 pencils. They distribute equally to 25 classrooms. How many pencils does each classroom get?

A. 10 pencils

C. 15 pencils

B. 12 pencils

D. 8 pencils

8) Sam has 4 trading cards. Maya has 6 times as many trading cards as Sam. How many trading cards does Maya have?

A. 10

C. 28

B. 20

D. 24

9) Which number does NOT belong in this pattern? 12, 24, 36, 50, 60

A. 12

C. 50

B. 36

D. 60

10) Which is a correct way to decompose  $\frac{10}{12}$ ?

A.  $\frac{5}{12} + \frac{4}{12}$

C.  $\frac{3}{12} + \frac{3}{12} + \frac{3}{12}$

B.  $\frac{4}{12} + \frac{7}{12}$

D.  $\frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12}$



11) A class did two separate measurements: Batch A has values  $\frac{2}{8}$ ,  $\frac{3}{8}$ ,  $\frac{1}{8}$ . Batch B has values  $\frac{3}{8}$ ,  $\frac{5}{8}$ . What is the difference between the sum of Batch B and sum of Batch A?

A. 0

B.  $\frac{1}{8}$

C.  $\frac{2}{8}$

D.  $\frac{3}{8}$

12) A factory produces 46 widgets per hour. If the factory runs for 12 hours, how many widgets are produced?

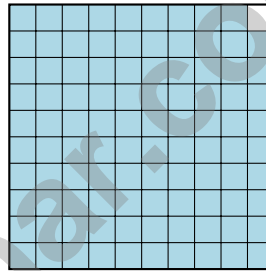
A. 552 widgets

B. 598 widgets

C. 485 widgets

D. 621 widgets

13) What decimal is shown by the shaded part of the hundredths grid?



99 out of 100 shaded

A. 0.01

B. 0.10

C. 0.99

D. 0.90

14) A water bottle holds  $\frac{3}{5}$  liter. How many liters do 2 water bottles hold together?

A.  $\frac{3}{10}$  liter

B.  $\frac{6}{5}$  liters

C.  $\frac{5}{6}$  liter

D. 1 liter



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1) Is 30 prime or composite?

A. Prime

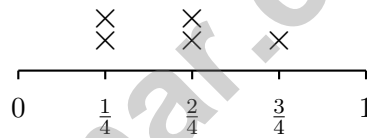
B. It depends

C. Neither

D. Composite

2) Find  $32 \times 19$ .

3) Look at the line plot of seed lengths (in inches). How many X marks are above  $\frac{2}{4}$  inch?



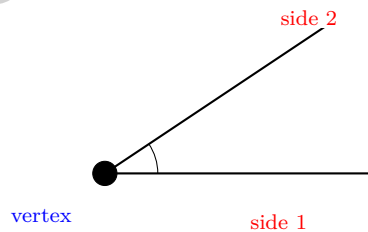
A. 1

B. 2

C. 3

D. 5

4)



In the angle shown, which part is labeled in blue?

A. A side

B. The vertex

C. The interior

D. A ray



5) What is  $\frac{7}{10}$  written as a fraction with denominator 100?

A.  $\frac{7}{100}$

B.  $\frac{70}{100}$

C.  $\frac{17}{100}$

D.  $\frac{77}{100}$

6) Subtract:  $3\frac{4}{5} - 1\frac{2}{5}$

A.  $2\frac{1}{5}$

B.  $2\frac{2}{5}$

C.  $2\frac{3}{5}$

D.  $3\frac{2}{5}$

7) This place-value chart shows a number. Write it in expanded form:

Thousands	Hundreds	Tens	Ones
6	0	8	3

A.  $6,000 + 800 + 30$

B.  $6,000 + 800 + 3$

C.  $6,000 + 80 + 3$

D.  $6 + 0 + 8 + 3$

8) A coach has 3 teams. Team A has 18 players, Team B has 22 players, and Team C has 20 players. They want to divide all players equally into 8 groups. How many players are in each group, and how many players are left over?

A. 15

B. 8

C. 6 remainder 2

D. 7 remainder 4

9) A pet store has 14 hamsters. Another pet store has 3 times as many hamsters. How many hamsters does the other store have?

A. 17

B. 30

C. 56

D. 42

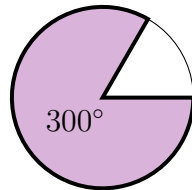


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6) Ava ran 0.3 kilometers and then 0.5 kilometers. How far did she run in total?

- A. 0.2 km                       C. 0.35 km  
 B. 0.8 km                       D. 1.0 km



7)

If the shaded angle measures  $300^\circ$ , what fraction of a complete turn is this?

- A.  $\frac{2}{3}$                                    C.  $\frac{5}{6}$   
 B.  $\frac{3}{4}$                                    D.  $\frac{4}{5}$

8) A baker makes muffins in batches. She makes 6 batches, each with 24 muffins. If she sells muffins in boxes of 9, how many boxes can she fill completely?

- A. 15                                       C. 18  
 B. 17                                       D. 16 boxes

9) A line plot shows data in eighths:



If all measurements at  $\frac{6}{8}$  inch are removed, how many X marks remain on the line plot?

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

## 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.NBT.B.4) The first step is to add the ones place:  $6 + 9 = 15$ . We write 5 and carry 1 to the tens place. This is  $6 + 9 = 15$  (write 5, carry 1).
- Choice D is correct.** (4.G.A.1) Parallel lines never meet, but non-parallel lines angle toward each other and will eventually crash together. Diagram D shows two lines leaning toward each other, so they'll meet someday.
- Choice D is correct.** (4.OA.A.1) "6 times as many" tells us to multiply. Tara has 6 groups of Nina's 4 apples:  $4 \times 6 = 24$  apples.
- Choice A is correct.** (4.NF.B.4) For  $5 \times \frac{1}{2}$ , we need 5 bars, each divided in half with one half shaded in each. Picture A shows five bars with one-half shaded in each bar. The answer is Picture A.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest hundred. Look at the tens digit: 4. Since  $4 < 5$ , we round DOWN. The hundreds digit stays at 8, giving us **93,800**. ✓
- Choice D is correct.** (4.OA.B.4) Hunt for factors beyond 1 and 16. Since  $16 = 2 \times 8 = 4 \times 4$ , both 2 and 4 are factors. With factors 1, 2, 4, 8, 16 (more than two), 16 is **composite**.
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: total pencils: 4 cases  $\times$  50 pencils = 200. Step 2: share equally among 25 classrooms:  $200 \div 25 = 8$  pencils each.
- Choice D is correct.** (4.OA.A.2) "6 times as many" tells us to multiply. Maya has 6 groups of Sam's 4 cards:  $6 \times 4 = 24$  trading cards.
- Choice C is correct.** (4.OA.B.4) The pattern should follow "add 12," giving multiples of 12: 12, 24, 36, 48, 60, ... Looking at the list, 50 does not appear in that sequence ( $48 + 12 = 60$ , not 50). So **50** is the number that doesn't belong.
- Choice D is correct.** (4.NF.B.3) Option D has five pieces:  $\frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12}$ . Count:  $2 + 2 + 2 + 2 + 2 = 10$ , so we get  $\frac{10}{12}$ . ✓
- Choice C is correct.** (4.MD.B.4) Batch A sum:  $\frac{2}{8} + \frac{3}{8} + \frac{1}{8} = \frac{6}{8}$ . Batch B sum:  $\frac{3}{8} + \frac{5}{8} = \frac{8}{8}$ . The difference is  $\frac{8}{8} - \frac{6}{8} = \frac{2}{8}$ .
- Choice A is correct.** (4.NBT.B.5) Use place value:  $46 \times (10 + 2) = 460 + 92 = 552$  widgets.
- Choice C is correct.** (4.NF.C.5) The picture shows a hundredths grid with just one square left blank. That means 99 out of 100 are shaded:  $\frac{99}{100} = 0.99$ .
- Choice B is correct.** (4.NF.B.4) Two water bottles, each holding  $\frac{3}{5}$  liter, give us  $2 \times \frac{3}{5} = \frac{6}{5}$  liters total.
- Choice D is correct.** (4.NBT.A.2) Breaking it: 73 thousands ("seventy-three thousand") and 546 ones ("five hundred forty-six") ✓
- Choice B is correct.** (4.NF.C.5) 3 tenths = 0.3 and 7 hundredths = 0.07. Add them:  $0.3 + 0.07 = 0.37$ .
- The correct answer is A, C.** (4.NF.B.3) Let's check each statement. Step 1 (for A and C): Add the amounts:  $\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$  cups total (A is correct). Find the difference:  $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$  cup more sugar (C is correct). Step 2 (why others fail): B claims  $\frac{5}{8}$ , but we got  $\frac{5}{4}$ . D claims  $\frac{1}{8}$ , but the difference is  $\frac{1}{4}$ . E compares the ratio 2:3, which is not half.
- The correct answer is 90.** (4.MD.C.5) An acute angle is less than **90** degrees.
- Choice D is correct.** (4.NBT.A.1) Mason's thousands cards are worth  $8 \times 1,000 = 8,000$ ; tens cards are worth  $8 \times 10 = 80$ . The ratio is  $8,000 \div 80 = 100$  times. ✓
- Choice A is correct.** (4.MD.C.7) The diagram shows three parts forming a right angle. Add the two known parts:  $25^\circ + 35^\circ = 60^\circ$ . Then subtract:  $90^\circ - 60^\circ = 30^\circ$ .
- Choice C is correct.** (4.MD.A.2) Each bottle holds 750 mL. With 2 bottles, multiply:  $750 \times 2 = 1,500$  mL. There are **1,500** milliliters of water.
- The correct answer is 8 cm.** (4.MD.A.3) Using  $P = 2\ell + 2w = 38$  with  $\ell = 11$ :  $2(11) + 2w = 38$ . Solve:  $22 + 2w = 38$ , so  $2w = 16$ , thus  $w = 8$  cm.
- Choice B is correct.** (4.NF.B.3) To decompose means to break apart. Breaking  $\frac{6}{8}$  into unit fractions means showing it as a sum of  $\frac{1}{8}$ 's:  $\frac{6}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ .  

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## Hi, Hero!

◇ Once there was a Grade 4 student who took 5 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

### Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

**Storyteller tip:** on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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 Storyteller

# 5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

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

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SUCCESS TOMORROW!

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### Better Problem Solving

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Become familiar with test-style questions and formats.



### Track Progress

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### Master Key Concepts

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### Prepare for Success

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- ✓ Place Value & Number Sense
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- ✓ Multiplication & Division
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Mixed Question Types



Answer Key Included

A+