

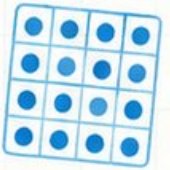
# 10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



$$\frac{3}{4}$$



## Maryland

## MCAP

## GRADE 4

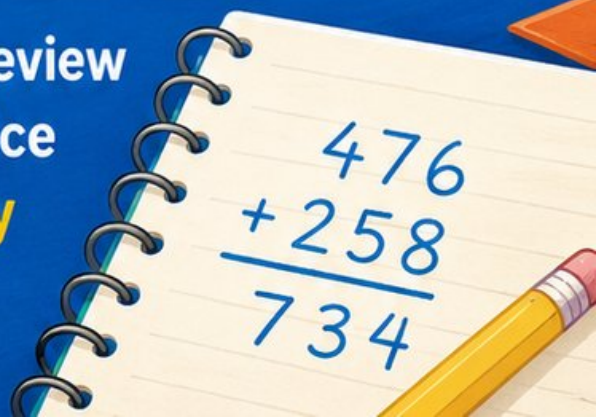
## MATH



### PRACTICE TESTS

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

$$\begin{array}{r} 476 \\ + 258 \\ \hline 734 \end{array}$$



# 10 Maryland MCAP Grade 4 Math Practice Tests

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



Ten 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!

Ten steady rounds on the Old Line State math route

This book gives you ten 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole Maryland book.
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.



Scan me!  
For more practice  
& answers

# Table of Contents

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1) A fraction bar for  $\frac{5}{8}$  has how many shaded parts?

2) What is  $\frac{9}{12} - \frac{4}{12}$ ?

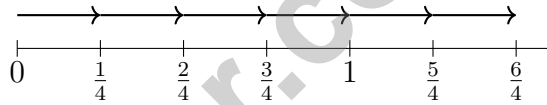
A.  $\frac{5}{12}$

B.  $\frac{13}{12}$

C.  $\frac{5}{24}$

D.  $\frac{4}{12}$

3) Use the number line to find  $6 \times \frac{1}{4}$ .



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

B.  $\frac{6}{4}$  or  $1\frac{1}{2}$

C.  $\frac{6}{24}$

D. 2

4) Which shape has perpendicular sides and all angles of 90 degrees?

 A. Acute triangle

 B. Obtuse triangle

 C. Rectangle

 D. Trapezoid

5) A pattern shows every third multiple of 4. Which list shows this pattern?

 A. 4, 8, 12, 16, 20

 B. 8, 16, 24, 32, 40

 C. 4, 12, 20, 28, 36

 D. 12, 24, 36, 48, 60


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6) A table shows multiples of  $\frac{1}{3}$ . What is the missing number?

Multiplier	1	2	3	4	5
Multiple of $\frac{1}{3}$	$\frac{1}{3}$	$\frac{2}{3}$	?	$\frac{4}{3}$	$\frac{5}{3}$

- A.  $\frac{1}{3}$   
 B.  $\frac{3}{6}$

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

7) A small factory packs 3,024 toys into boxes. How many boxes of 6 toys per box can they fill?



- A. 504  
 B. 514

- C. 494  
 D. 524

8) Which comparison symbol is correct?

- A.  $\frac{1}{5} > \frac{1}{3}$   
 B.  $\frac{1}{5} < \frac{1}{3}$

- C.  $\frac{1}{5} = \frac{1}{3}$   
 D.  $\frac{5}{1} < \frac{3}{1}$

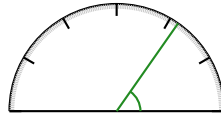
9) Which number sentence is true?

- A.  $\frac{4}{6} = \frac{6}{8}$   
 B.  $\frac{3}{6} = \frac{4}{10}$

- C.  $\frac{4}{10} = \frac{2}{5}$   
 D.  $\frac{5}{8} = \frac{10}{12}$



10)



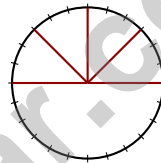
Diego measures an angle and finds it to be between 45 and 60 degrees. Which is a reasonable degree measure?

- A. 53 degrees                       C. 62 degrees  
 B. 40 degrees                       D. 70 degrees

11) Is 50 prime or composite?

- A. Prime                               C. Neither  
 B. Sometimes                       D. Composite

12)



A full circle is shown with several rays drawn inside. How many degrees are in the full circle?

- A.  $90^\circ$                                C.  $360^\circ$   
 B.  $180^\circ$                                D.  $720^\circ$

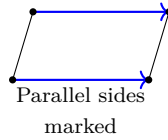
13) Ming had  $5\frac{3}{4}$  cups of milk. She used  $1\frac{1}{4}$  cups for cereal. How much milk is left?

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

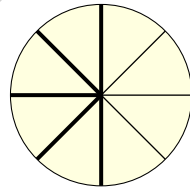


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1) Which figure has at least one pair of parallel sides?



- A. Trapezoid
  B. Triangle
  C. Pentagon
  D. Hexagon
- 2) Noah used  $\frac{5}{6}$  of his paint to paint a fence. Maria used  $\frac{3}{4}$  of her paint on a wall. Assuming they started with the same amount, who used more paint?
- A. Noah used more
  B. Maria used more
  C. They used the same amount
  D. Cannot determine
- 3) What decimal is equal to  $0.2 + 0.09$ ?
- A. 0.11
  B. 0.29
  C. 0.209
  D. 2.9



Pie divided into eighths

4)

James eats  $\frac{1}{8}$  of a pie each day. How much of the pie does he eat in 5 days?

- A.  $\frac{1}{40}$  of the pie
  B.  $\frac{5}{8}$  of the pie
  C.  $\frac{5}{40}$  of the pie
  D.  $\frac{6}{8}$  of the pie



5) Which expression shows  $\frac{3}{5}$  as a sum of unit fractions?

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

B.  $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

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

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

6) 3 times

5
?

Harper collected 5 seashells. Jackson collected 3 times as many seashells as Harper. How many seashells did Jackson collect?

7) Use this place-value chart:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
4	1	8	5	2	3

What is the standard numeral?

A. 418,253

B. 481,523

C. 418,352

D. 418,523

8) A slanted parallelogram that is not a rectangle or a rhombus has how many lines of symmetry?

A. 0

B. 1

C. 2

D. 4



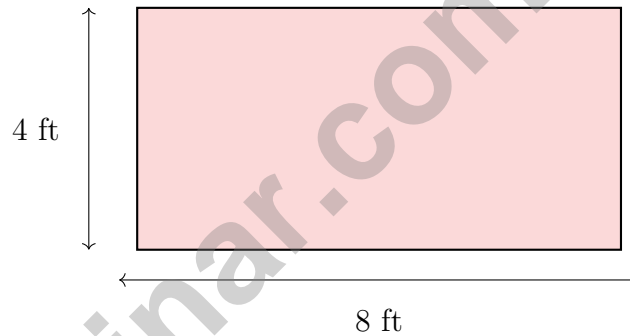
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1) Three students timed their sprints. Riley: 0.47 seconds. Jordan: 0.74 seconds. Casey: 0.44 seconds. Who was fastest (smallest time)?

- A. Riley (0.47 s)                       C. Casey (0.44 s)  
 B. Jordan (0.74 s)                       D. Riley and Jordan tied

2) Which ordering is correct?

- A.  $\frac{4}{5} > \frac{4}{6} > \frac{4}{8}$                        C.  $\frac{4}{5} = \frac{4}{6} = \frac{4}{8}$   
 B.  $\frac{4}{8} > \frac{4}{6} > \frac{4}{5}$                        D.  $\frac{4}{6} > \frac{4}{5} > \frac{4}{8}$



3)

A farmer wants to put a fence around this rectangular field. How many feet of fencing does he need?

- A. 32 ft                       C. 48 ft  
 B. 12 ft                       D. 24 ft

4) Which quadrilateral always has four right angles?

- A. Trapezoid                       C. Rhombus  
 B. Rectangle                       D. Parallelogram



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5) In the number 6,217, which digit is in the tens place?

A. 6

C. 1

B. 2

D. 7

6) Round 9,987 to the nearest thousand. (This is a rollover case.)

A. 9,000

C. 9,900

B. 9,987

D. 10,000

7) How many factor pairs does 20 have?

A. 2

C. 4

B. 5

D. 3

8) Which number sentence is correct?

A.  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{12}$

C.  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{3}{9}$

B.  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$

D.  $\frac{1}{6} + \frac{1}{6} = \frac{2}{12}$

9) What is  $1\frac{2}{6} + 2\frac{5}{6}$ ?

A.  $3\frac{5}{6}$

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

B.  $4\frac{1}{6}$

D. 4

10) Two angles are measured: one is 55 degrees and one is 165 degrees. Which statement is true?

A. Both angles are acute

C. One is acute and one is obtuse

B. Both angles are obtuse

D. Both angles are right angles



## 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 5.** (4.NF.B.4) The numerator 5 tells us how many shaded parts. So  $\frac{5}{8}$  has 5 shaded parts out of 8.
- Choice A is correct.** (4.NF.B.3) Subtract the numerators:  $9 - 4 = 5$ . Keep the same denominator:  $\frac{5}{12}$ .
- Choice B is correct.** (4.NF.B.4) On the number line, we make 6 jumps of  $\frac{1}{4}$  each, landing at  $\frac{6}{4} = 1\frac{1}{2}$ . So  $6 \times \frac{1}{4} = 1\frac{1}{2}$ . The answer is  $1\frac{1}{2}$ .
- Choice C is correct.** (4.G.A.2) Perpendicular sides meet at 90-degree angles. A rectangle has all adjacent sides perpendicular to each other, creating four right angles. The answer is C.
- Choice D is correct.** (4.OA.B.4) Every third multiple of 4: the 3rd is 12, the 6th is 24, the 9th is 36. These are 12, 24, 36, 48, 60, ... (multiples of 12). ✓
- Choice C is correct.** (4.NF.B.4) The table shows multiples of  $\frac{1}{3}$ . The 3rd multiple is  $3 \times \frac{1}{3} = \frac{3}{3}$ .
- Choice A is correct.** (4.NBT.B.6) Divide:  $30 \div 6 = 5$ , bring down the 2 to get  $2 \div 6 = 0$  r2, bring down the 4 to get  $24 \div 6 = 4$ . The factory can fill **504** boxes.
- Choice B is correct.** (4.NF.A.1) All four fractions have numerator 1. Bigger denominators = smaller pieces. So fifths are smaller than thirds:  $\frac{1}{5} < \frac{1}{3}$ .
- Choice C is correct.** (4.NF.A.1) Check C: Divide both top and bottom by 2:  $\frac{4}{10} = \frac{4 \div 2}{10 \div 2} = \frac{2}{5}$  ✓ True! The other options don't work when you simplify or check them.
- Choice A is correct.** (4.MD.C.6) Diego needs a measure between  $45^\circ$  and  $60^\circ$ . At  $53^\circ$ , this falls right in that range. The other choices fall outside or at the edges of his measurement range. The answer is **53** degrees.
- Choice D is correct.** (4.OA.B.4) Look for any factor besides 1 and 50. Since  $50 = 2 \times 25 = 5 \times 10$ , 2 and 5 are also factors. With multiple factors, 50 is **composite**.
- Choice C is correct.** (4.MD.C.5) A full circle is a  $360^\circ$  angle—it turns through **360** one-degree angles.
- Choice B is correct.** (4.NF.B.3) Subtract the wholes:  $5 - 1 = 4$ . Subtract the fractions:  $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$ . The amount remaining is  $4\frac{2}{4}$  cups.
- The correct answer is A, C.** (4.G.A.3) A square balances in four ways: two lines go through opposite corners (diagonals), and two go through the midpoints of opposite sides. Choice A is correct (4 lines). Choice C is correct (lines through side midpoints exist). B is wrong because  $4 \neq 2$ . D is wrong because hexagons have 6, not more than 4. E is wrong because both diagonal lines are lines of symmetry!
- Choice D is correct.** (4.OA.A.2) "3 times as many" is a multiplication signal. The friend has 3 groups of 9 soldiers:  $3 \times 9 = 27$  toy soldiers.
- Choice B is correct.** (4.MD.B.4) Leo's total:  $\frac{6}{4}$ . Sam's total:  $\frac{4}{4} = 1$ . Chris's total:  $\frac{9}{4}$ . Sam has the shortest length.
- The correct answer is 99 sq m.** (4.MD.A.3) Area =  $11 \times 9 = 99$  sq m.
- Choice D is correct.** (4.OA.A.3) Two separate questions in one—both use multiplication! Step 1: total weight = 3 bags  $\times$  16 ounces = 48 ounces. Step 2: total money = 3 bags  $\times$  \$4 = \$12. So the answer must include both pieces: 48 ounces and \$12.
- Choice A is correct.** (4.NBT.B.4) Estimate:  $49,000 + 31,000 \approx 80,000$ . Then add carefully:  $48,765 + 31,234 = \mathbf{79,999}$ .
- Choice A is correct.** (4.NF.B.3) The container started full and some juice was served. Find how much was served by subtracting what's left from what started:  $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$  liter of juice was served.
- Choice C is correct.** (4.MD.A.2) The number line shows the walker goes 7 km in the morning and 5 km in the afternoon. Add:  $7 + 5 = 12$  km. The final distance is **12** kilometers.
- Choice D is correct.** (4.NBT.A.1) Check each number: 1,945 has 9 in the hundreds place (worth 900). The other options have 9 in different places. Answer: **1,945**. ✓
- Choice D is correct.** (4.NF.C.5) Three tenths can be written as 0.3, 0.30,  $\frac{3}{10}$ , or  $\frac{30}{100}$ . But  $\frac{3}{100} = 0.03$  is only 3 hundredths, so it doesn't match.
- The correct answer is  $\frac{3}{12}$ .** (4.NF.B.3) Divide  $\frac{9}{12}$  into three equal parts: each piece is  $\frac{3}{12}$ . Check:  $3 + 3 + 3 = 9$  ✓.



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& answers

Notes From the Math Gardener

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## Hi, Math Gardener!

◇ Look at how much you grew! 10 tests is like 10 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

### Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

**Gardener tip:** keep watering your math garden long after the test. Every habit you built will grow with you for years!

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 Gardener

# PRACTICE TODAY. ACHIEVE TOMORROW!

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