

7

Maryland

MCAP

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

7 Maryland MCAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Old Line State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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.

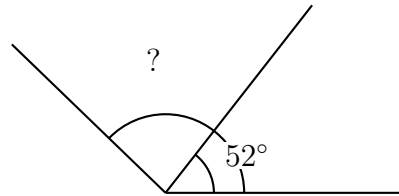


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For more practice
& answers

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- 1) A ray divides a 136° angle into two parts. The smaller part measures 52° . What is the measure of the larger part?



- A. 84°
 C. 188°
 B. 52°
 D. 68°
- 2) Which picture shows $3 \times \frac{2}{5}$?
- A**

B

C

D
- A. Top-left picture
 C. Bottom-left picture
 B. Top-right picture
 D. Bottom-right picture
- 3) Which of the following shows a pattern where all numbers are even?
- A. 2, 5, 8, 11, 14
 C. 3, 6, 9, 12, 15
 B. 4, 8, 12, 16, 20
 D. 1, 2, 3, 4, 5



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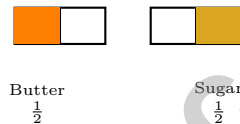
4) Jordan read 15 pages in his book. Sophia read 3 times as many pages as Jordan. How many pages did Sophia read?

- A. 18 C. 60
 B. 30 D. 45

5) How does 0.4 compare to 0.40?

- A. $0.4 < 0.40$ C. $0.4 = 0.40$
 B. $0.4 > 0.40$ D. $0.4 = 0.04$

6) A recipe calls for $\frac{1}{2}$ cup of butter and $\frac{1}{2}$ cup of sugar. How much butter and sugar combined?



A. $\frac{1}{4}$ cup C. $\frac{2}{4}$ cup
 B. $\frac{2}{2}$ or 1 cup D. $\frac{1}{2}$ cup

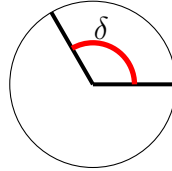
7) Three friends share a sub sandwich. Friend A eats $\frac{4}{10}$, Friend B eats $\frac{3}{10}$, and Friend C eats the rest. What fraction did Friend C eat?

- A. $\frac{3}{10}$ C. $\frac{1}{10}$
 B. $\frac{7}{10}$ D. $\frac{2}{10}$

8) Convert $\frac{5}{10}$ to a fraction with denominator 100.



9) Which fraction is not equivalent to $\frac{1}{3}$: $\frac{1}{3}$, $\frac{2}{6}$, $\frac{3}{9}$, or $\frac{2}{5}$?



10)

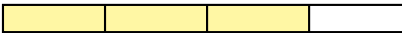
What is the measure of angle δ in the diagram?

- | | |
|---|---|
| <input type="checkbox"/> A. 90° | <input type="checkbox"/> C. 150° |
| <input type="checkbox"/> B. 120° | <input type="checkbox"/> D. 180° |

11) Which fraction bar shows $\frac{4}{6}$ as a sum of unit fractions?

Choice A 

Choice B 

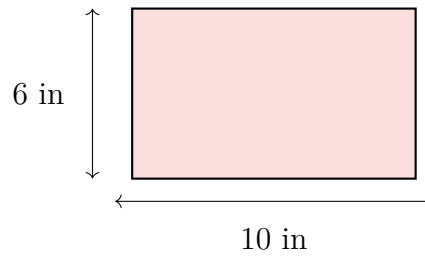
Choice C 

Choice D 

- | | |
|---|---|
| <input type="checkbox"/> A. 4 parts shaded, 6 total | <input type="checkbox"/> C. 3 parts shaded, 4 total |
| <input type="checkbox"/> B. 3 parts shaded, 3 total | <input type="checkbox"/> D. 2 parts shaded, 3 total |



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1)

What is the perimeter of the rectangle shown above?

- A. 16 in C. 60 in
 B. 32 in D. 48 in

2) How many degrees in $\frac{2}{3}$ of a full turn around a circle?

- A. 180° C. 240°
 B. 200° D. 270°

3) Sam wrote “five hundred sixteen thousand, two hundred thirty” as 516,230. Is this correct?

- A. No; it should be 516,032 C. No; it should be 516,320
 B. No; it should be 516,203 D. Yes, it is correct

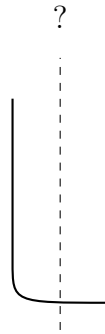
4) What is $2,156 \div 2$?

- A. 1,078 C. 1,088
 B. 1,068 D. 1,058



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5) Look at the letter U below. Where is its line of symmetry?



- A. Horizontally across the middle C. Diagonally from corner to corner
 B. Vertically down the middle D. It has no line of symmetry
- 6) Noah mixed together 3 batches of paint. Each batch is $\frac{1}{6}$ gallon. How many gallons of paint does Noah have?

- A. $\frac{1}{6}$ gallon C. $\frac{4}{6}$ gallon
 B. $\frac{2}{6}$ gallon D. $\frac{1}{2}$ gallon (same as $\frac{3}{6}$)

7) A carton of juice contains 3 liters. How much juice is in 9 cartons?

- A. 12 L C. 27 L
 B. 18 L D. 30 L

8) Where should $\frac{2}{6}$ be placed on the number line?



- A. At 0 C. At $\frac{1}{3}$
 B. Between 0 and $\frac{1}{3}$ D. Between $\frac{1}{3}$ and $\frac{2}{3}$



- 1) Using partial quotients to divide $1,632 \div 4$, which step correctly shows the next quotient?

$$1,632 \div 4:$$

$$\text{Step 1: } 1,632 - (4 \times 400) = 32$$

$$\text{Step 2: } 32 \div 4 = 8$$

$$\text{Step 3: } 400 + 8 = ?$$



Quotient: ?

- A. The quotient is 500 C. The quotient is 380
 B. The quotient is 492 D. The quotient is 408
- 2) Which pattern shows only odd numbers?
- A. 2, 4, 6, 8, 10 C. 2, 3, 4, 5, 6
 B. 1, 3, 5, 7, 9 D. 5, 10, 15, 20, 25
- 3) Complete the conversion table.

Feet	Inches
2	?
5	?
7	?

If 2 feet = ? inches and 1 foot = 12 inches, what is the correct value?

- A. 12 inches C. 36 inches
 B. 24 inches D. 48 inches



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.MD.C.7) The diagram shows a ray splitting the angle. Subtract to find the larger part: $136^\circ - 52^\circ = 84^\circ$.
- Choice A is correct.** (4.NF.B.4) For $3 \times \frac{2}{5}$, we need 3 bars, each divided into 5 parts with 2 parts shaded in each. Picture A shows three bars with two-fifths shaded in each bar. The answer is Picture A.
- Choice B is correct.** (4.OA.B.4) Remember: even numbers end in 0, 2, 4, 6, or 8. Check each list: choice A has 5 and 11 (odd), choice C has 3, 9, 15 (odd), choice D has 1, 3, 5 (odd). Only choice B—4, 8, 12, 16, 20—has every term ending in an even digit, so every term is even. ✓
- Choice D is correct.** (4.OA.A.2) “3 times as many” means multiply: $3 \times 15 = 45$. *Tip:* $3 \times 10 = 30$ and $3 \times 5 = 15$, so $30 + 15 = 45$ pages.
- Choice C is correct.** (4.NF.C.5) A trailing zero doesn’t change the value. Both 0.4 and 0.40 represent the same amount: 4 tenths, or 40 hundredths.
- Choice B is correct.** (4.NF.B.3) The recipe calls for $\frac{1}{2}$ cup of butter plus $\frac{1}{2}$ cup of sugar. Together: $1 + 1 = 2$ halves, which equals 1 whole cup.
- Choice A is correct.** (4.NF.B.3) Three friends share one sub. Step 1: Add Friends A and B: $\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$. Step 2: Friend C eats what’s left: $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}$.
- The correct answer is $\frac{50}{100}$.** (4.NF.C.5) Think about place value: 1 tenth = 10 hundredths (because each tenth strip splits into 10 hundredth squares). So 5 tenths = $5 \times 10 = 50$ hundredths. Written as fractions: $\frac{5}{10} = \frac{5 \times 10}{10 \times 10} = \frac{50}{100}$. ✓
- The correct answer is $\frac{2}{5}$.** (4.NF.A.1) Check each one: $\frac{1}{3} = \frac{2}{6}$ (multiply by 2) and $\frac{1}{3} = \frac{3}{9}$ (multiply by 3). But $\frac{2}{5}$ is different—not equivalent to $\frac{1}{3}$.
- Choice B is correct.** (4.MD.C.5) The diagram shows an angle spanning from the right to an upper-left ray. The measure is 120° .
- Choice A is correct.** (4.NF.B.3) In the fraction bar, we have 4 shaded parts out of 6 equal parts. Each piece is a unit fraction $\frac{1}{6}$. So we have $\frac{4}{6} = \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$.

$\underbrace{\hspace{10em}}_{4 \text{ copies}}$
- Choice B is correct.** (4.NF.B.4) Let’s check each one: A: $2 \times \frac{1}{5} = \frac{2}{5}$, not $\frac{1}{10}$. B: $3 \times \frac{1}{5} = \frac{3}{5}$ ✓. C: $4 \times \frac{1}{5} = \frac{4}{5}$, not $\frac{4}{20}$. D: $5 \times \frac{1}{5} = 1$, not $\frac{1}{5}$.
- Choice A is correct.** (4.NF.B.3) Since $\frac{1}{3} < \frac{2}{3}$, regroup: $2\frac{1}{3} = 1\frac{4}{3}$. Subtract the wholes: $1 - 1 = 0$. Subtract the fractions: $\frac{4}{3} - \frac{2}{3} = \frac{2}{3}$.
- Choice D is correct.** (4.MD.C.6) The ray points to the 105° mark. Since 105° is between the 90° and 120° benchmarks, this is an obtuse angle. The answer is **105** degrees.
- The correct answer is A, C.** (4.MD.C.5) Statement A is correct: 50° contains **50** one-degree angles. Statement C is correct: a right angle measures 90° and contains **90** one-degree angles. Statement B is wrong (double-counting). Statement D is wrong (straight angle is 180° , not 90°). Statement E is wrong (full circle is 360° , not 180°).
- Choice B is correct.** (4.OA.B.4) Walk through the factor pairs of 48: 1×48 , 2×24 , 3×16 , 4×12 , 6×8 . Combine both sides: **1, 2, 3, 4, 6, 8, 12, 16, 24, 48** (10 factors). Choice A misses 3 and 16; choice C misses 16; choice D misses 1.
- Choice C is correct.** (4.NF.B.4) In 2 weeks, Mia receives her allowance twice. So we have $2 \times \frac{3}{4} = \frac{6}{4}$ dollars, which simplifies to $1\frac{1}{2}$ dollars.
- Choice C is correct.** (4.NF.B.3) Option C: $8 + 3 = 11$, not 12. So $\frac{8}{10} + \frac{3}{10} = \frac{11}{10} \neq \frac{12}{10}$. C is the wrong one ✓.
- Choice B is correct.** (4.NF.B.4) Adding three eighths together: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = 3 \times \frac{1}{8} = \frac{3}{8}$.
- The correct answer is 90.** (4.MD.C.5) A straight angle is 180° and a right angle is 90° . Since $180 - 90 = 90$, the straight angle is 90° larger.
- Choice C is correct.** (4.G.A.2) A square has all four of these properties combined: four equal sides, two pairs of parallel sides, and four right angles. No other quadrilateral has all these properties. The answer is **C**.
- Choice C is correct.** (4.MD.A.2) One lap takes 3 minutes. For 9 laps, multiply: $3 \times 9 = 27$ minutes. It will take **27** minutes total.



Ahoy, Math Sailor!

◇ You sailed through 7 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 7 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



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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.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
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Answer Key Included