

+
★
10

=
Maryland
MCAP



GRADE 3

MATH

PRACTICE TESTS

- ✓ Complete Standards Review
- ✓ Skill Practice
- ✓ Word Problems and Answer Key

2 × 7 + 4



★
**PREPARE
PRACTICE
SUCCEED!**
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Maryland MCAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 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 3 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.

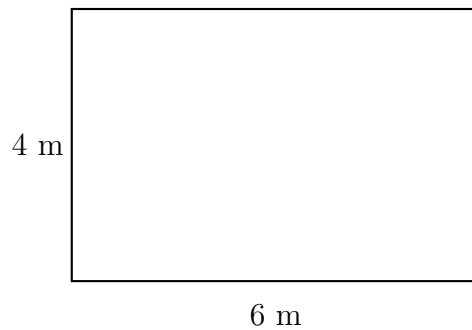
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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6)

A rectangular parking spot measures 6 meters by 4 meters. What is its area?

 A. 10 sq m C. 12 sq m B. 20 sq m D. 24 sq m

7) A rectangle is divided into equal parts. Five parts are shaded out of 8 equal parts. What fraction is shaded?

 A. $\frac{3}{8}$ C. $\frac{5}{3}$ B. $\frac{5}{8}$ D. $\frac{1}{8}$ 8) $354 + 186 = ?$ A. 540 C. 549 B. 539 D. 550

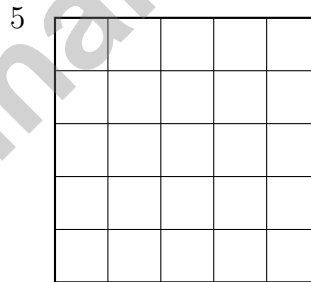
9) A whiteboard is 5 feet long and 4 feet wide. What is its area?

- A. 9 sq ft C. 20 sq ft
 B. 18 sq ft D. 25 sq ft

10) Mia sees a number line from 0 to 3 divided into thirds. She marks $\frac{5}{3}$. Is this past the 1 on the number line?

- A. No, before 1 C. Right at 1
 B. Way past 3 D. Yes, past 1

11) Mia colored $\frac{2}{3}$ of a circle. Write an equivalent fraction that uses 6 as the denominator.



12)

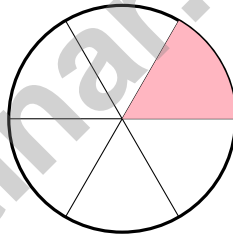
This square is tiled with unit squares. How many are there?

- A. 10 C. 25
 B. 20 D. 55



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- 1) A rectangle is 6 units long and 4 units wide. What is its area in square units?
- A. 20 sq units C. 26 sq units
 B. 24 sq units D. 30 sq units
- 2) A rectangle has width 4 units and length 5 units. It has 5 rows with 4 unit squares in each row. Using repeated addition: $4 + 4 + 4 + 4 + 4 = ?$
- A. 9 sq units C. 15 sq units
 B. 20 sq units D. 16 sq units
- 3) $? - 187 = 256$. What is the missing minuend?
- A. 433 C. 444
 B. 413 D. 443
- 4) Look at this circle divided into 6 equal parts. One part is shaded.



What fraction is shaded?

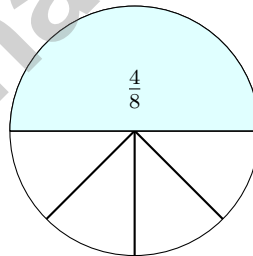
- A. $\frac{1}{6}$ C. $\frac{6}{6}$
 B. $\frac{1}{5}$ D. $\frac{2}{6}$



- 1) $\begin{array}{cccc} \square & \square & \square & \square \\ \square & \square & \square & \square \\ \square & \square & \square & \square \end{array}$

What repeated addition matches this array?

- A. $4 + 3 + 3 = 10$ C. $3 + 4 = 7$
 B. $3 + 3 + 3 = 9$ D. $4 + 4 + 4 = 12$
- 2) A sports team scored 234 points in the first game and 189 points in the second game. Which statement about the difference is correct?
- A. $234 - 189 = 45$; the team scored 45 more points in the first game C. $189 - 234 = 45$; the team scored 45 more points in the second game
 B. $234 - 189 = 55$; the team scored 55 more points in the first game D. $234 + 189 = 423$; the team scored 423 points in both games
- 3) Ava uses 4 of her 8 markers. What fraction did she use?



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



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4) Which list shows skip counting by 4s?

A. 2, 4, 6, 8, 10

C. 3, 6, 9, 12, 15

B. 5, 10, 15, 20, 25

D. 4, 8, 12, 16, 20

5) A picture graph shows apples in bags. Look at the key and count the symbols.

Key: ● = 5 apples

Bag 1: ● ● ●

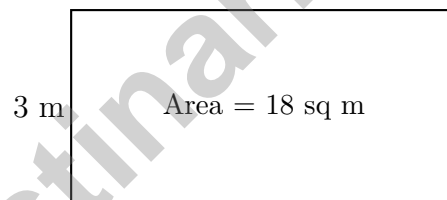
Bag 2: ● ● ● ●

A. Bag 1 has 15 apples, Bag 2 has 20 apples.

C. Bag 1 has 15 apples, Bag 2 has 10 apples.

B. Bag 1 has 3 apples, Bag 2 has 4 apples.

D. Bag 1 has 20 apples, Bag 2 has 15 apples.



6)

A rectangular field has an area of 18 square meters and a height of 3 meters. What is the length?

A. 6 meters

C. 21 meters

B. 15 meters

D. 9 meters



Practice Test Answer Keys

How to use this section with a Grade 3 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 D is correct.** **(3.OA.C.7)** $72 \div 8 = 9$. Each page holds 8 stickers, so 72 stickers fill 9 pages.
- Choice D is correct.** **(3.OA.B.6)** The unknown factor in $\square \times 3 = 18$ is 6. This is exactly the same as $18 \div 3 = 6$. Multiplication and division are inverse operations.
- Choice B is correct.** **(3.NF.A.3)** Visual reasoning: same numerator (2), so both take 2 pieces. But $\frac{2}{3}$ divides the whole into 3 parts (each third is large), while $\frac{2}{6}$ divides into 6 parts (each sixth is small). Comparing shaded amounts: 2 large pieces $>$ 2 small pieces, so $\frac{2}{3} > \frac{2}{6}$.
- Choice A is correct.** **(3.OA.A.2)** Dividing equally among groups means the total is shared into equal parts. Use division.
- Choice D is correct.** **(3.OA.B.5)** The distributive property multiplies 2 by each addend: $2 \times 6 + 2 \times 4 = 12 + 8 = 20$.
- Choice D is correct.** **(3.MD.D.8)** Area = length \times width = $6 \times 4 = 24$ square meters.
- Choice B is correct.** **(3.G.A.2)** Five shaded parts out of 8 equal parts is $\frac{5}{8}$.
- Choice A is correct.** **(3.NBT.A.2)** Ones: $4 + 6 = 10$ (write 0, carry 1). Tens: $5 + 8 + 1 = 14$ (write 4, carry 1). Hundreds: $3 + 1 + 1 = 5$. Answer: 540.
- Choice C is correct.** **(3.MD.C.6)** Area = $5 \times 4 = 20$ square feet.
- Choice D is correct.** **(3.NF.A.2)** $\frac{5}{3} = 1\frac{2}{3} \approx 1.67$. This is past 1.
- The correct answer is $\frac{4}{6}$.** **(3.NF.A.3)** Multiply the numerator and denominator by 2: $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$.
- Choice C is correct.** **(3.MD.D.8)** Square tiling: $5 \times 5 = 25$ square units.
- Choice D is correct.** **(3.NBT.A.1)** The tens digit is 8. Since $8 \geq 5$, round up: 589 rounds to 600.
- Choice B is correct.** **(3.MD.C.5)** The shaded rectangle is 5 units wide and 2 units tall. $5 \times 2 = 10$ square units.
- Choice B is correct.** **(3.NF.A.3)** $\frac{2}{4}$ and $\frac{3}{6}$ both equal half of a whole.
- Choice A is correct.** **(3.MD.C.6)** A unit square has side length 1 unit. If measured in inches, that is 1 in \times 1 in = 1 square inch.
- Choices B and E are correct.** **(3.OA.D.9)** Statement B is true because any even number contains a factor of 2, making the product even. Example: $4 \times 3 = 12$ (even). Statement E is true because the row for 5 shows 5, 10, 15, 20, ..., increasing by 5 each time (5×1 , 5×2 , 5×3 , etc.). Statement A is false (odd \times odd is odd). Statement C is false (3, 6, 9, 12, ... has odd and even). Statement D is false ($5 \times 6 = 30$ is even).
- Choice B is correct.** **(3.NBT.A.3)** The chart shows 6 tens and 0 ones, which is $6 \times 10 = 60$.
- Choice D is correct.** **(3.OA.D.8)** Step 1: Subtract: $80 - 8 = 72$ chairs. Step 2: Divide by rows: $72 \div 8 = 9$ chairs per row.
- Choice A is correct.** **(3.G.A.2)** 3 thirds make 1 whole. 9 thirds = $9 \div 3 = 3$ wholes.
- Choice D is correct.** **(3.MD.C.5)** $3 \times 10 = 30$ unit square tiles.
- The correct answer is 20 square units.** **(3.MD.C.7)** The grid shows 5 columns and 4 rows. Area = $5 \times 4 = 20$ square units. You can also add by rows: $5 + 5 + 5 + 5 = 20$ (four rows of five).
- Choice B is correct.** **(3.MD.B.4)** Add known values: $3 + 1 + 4 = 8$. Subtract from total: $11 - 8 = 3$ bookmarks at $2\frac{1}{2}$ inches.
- Choice D is correct.** **(3.OA.A.4)** Multiply: $6 \times 8 = 48$ cookies.
- Choice A is correct.** **(3.MD.C.7)** Multiply the outside number by each part inside, then add.
- Choice D is correct.** **(3.OA.A.3)** 9 boxes \times 6 cupcakes per box = 54 cupcakes.
- Choice A is correct.** **(3.MD.C.5)** Top: $2 \times 4 = 8$ sq units. Bottom left: $3 \times 2 = 6$ sq units. Bottom right: $3 \times 2 = 6$ sq units. Total: $8 + 6 + 6 = 20$ sq units.
- Choice D is correct.** **(3.NF.A.2)** $\frac{1}{3} = \frac{2}{6}$. They represent the same position on a number line.
- The correct answer is $\frac{3}{6}$.** **(3.NF.A.2)** The third tick out of 6 equal parts is $\frac{3}{6}$.
- Choice A is correct.** **(3.NF.A.1)** Two unit fractions of $\frac{1}{8}$ add up to $\frac{1}{8} + \frac{1}{8} = \frac{2}{8}$.



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A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 10 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 10 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. You can do this!

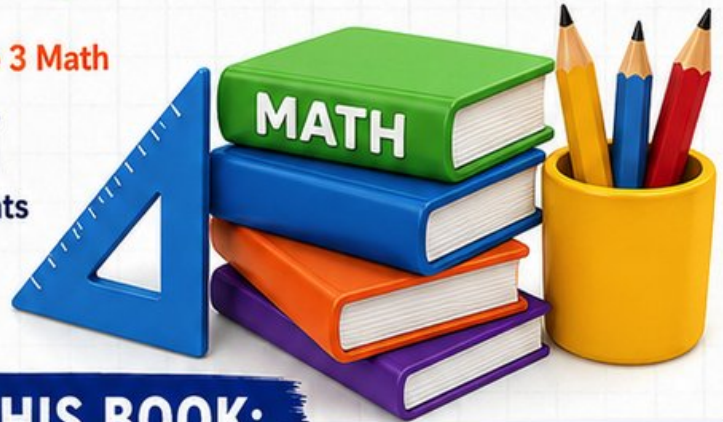
If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Friend

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