

8

Maryland MCAP

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



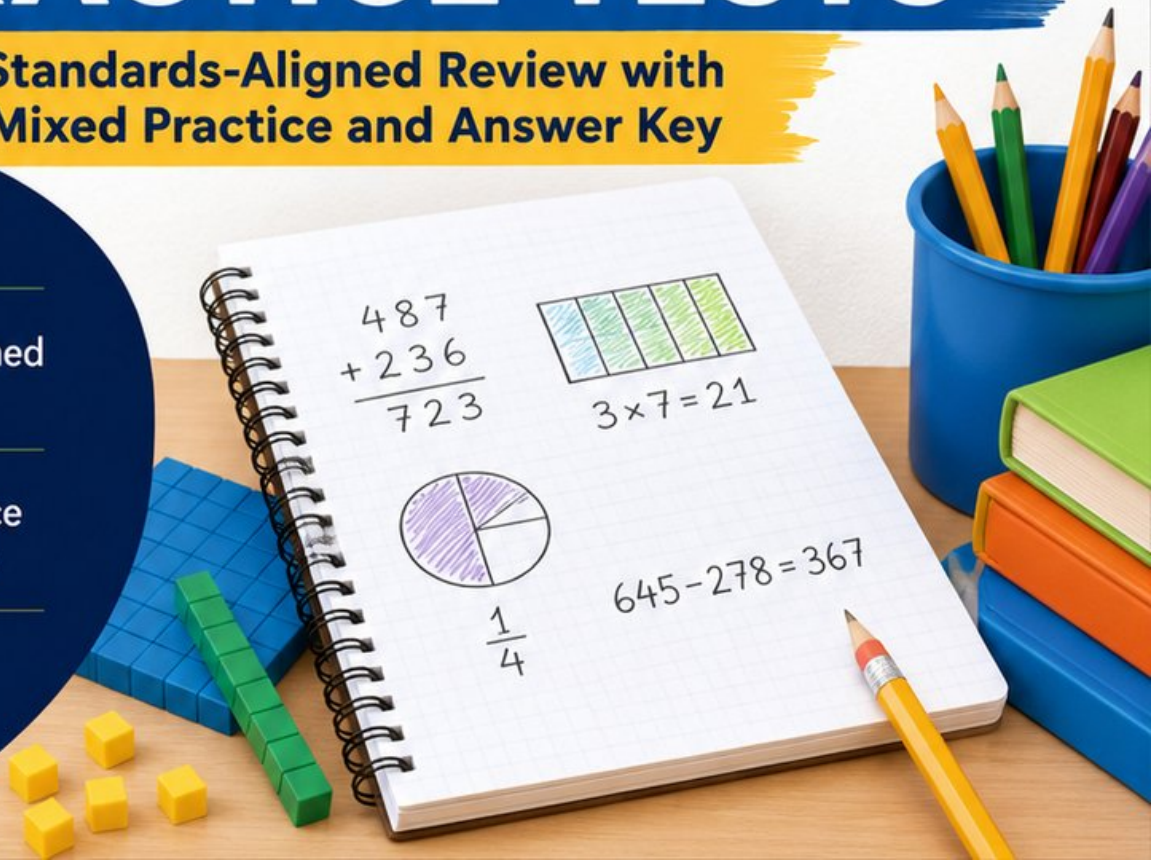
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Maryland MCAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question practice rounds for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Maryland, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Maryland MCAP. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Maryland has bay bridges, harbor maps, crab boats, rolling fields, and strong classroom questions, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and check units and labels before the final answer.

Your Maryland Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Maryland book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Maryland, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the MCAP

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Maryland focus: The practice path starts with bay bridges, harbor maps, crab boats, rolling fields, and strong classroom questions. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



Scan me!
For more practice
& answers

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1) Which number sentence represents “How many groups of 3 are in 24?”

A. $24 \div 3$

C. $3 + 24$

B. $3 \div 24$

D. 3×24

2) Lily’s garden is a rectangle with dimensions 4 yards by 7 yards. What is the area of her garden?

A. 11 sq yd

C. 28 sq yd

B. 22 sq yd

D. 30 sq yd

3 meters



6 meters

3)

A rectangular pool is 6 meters long and 3 meters wide. Find its area.

A. 9 sq m

C. 15 sq m

B. 36 sq m

D. 18 sq m

4) Noah buys 7 packs of pencils. Each pack has 10 pencils. How many pencils does Noah buy?

A. 17

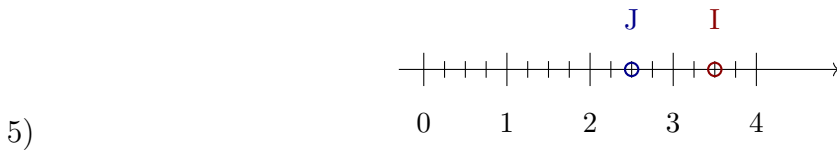
C. 710

B. 701

D. 70



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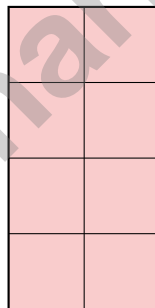


On a number line from 0 to 4 divided into fourths, point J is at 2.5 and point I is at 3.5. Which two fractions label these points?

- A. $J = \frac{10}{4}, I = \frac{14}{4}$
- B. $J = \frac{10}{4}, I = \frac{13}{4}$
- C. $J = \frac{8}{4}, I = \frac{14}{4}$
- D. $J = \frac{5}{4}, I = \frac{7}{4}$

6) If $7 \times 9 = 63$, what is 9×7 ?

7)



Count the unit squares in the grid shown. What is the area?

- A. 4 square units
- B. 6 square units
- C. 8 square units
- D. 10 square units

4) Which multiplication fact helps solve $42 \div 7$?

A. $6 \times 7 = 42$

C. $5 \times 7 = 35$

B. $7 \times 7 = 49$

D. $8 \times 7 = 56$

5) A classroom floor is a rectangle. It is 8 meters long and 6 meters wide. How many square meters is the classroom floor?

A. 14 square meters

C. 28 square meters

B. 48 square meters

D. 56 square meters

6) A rectangle is divided with 2 vertical lines making 3 equal columns. What fraction of the rectangle is 2 columns?



A. $\frac{1}{3}$

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

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

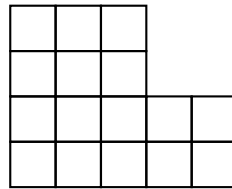
D. $\frac{1}{2}$

7) A student starts eating lunch at 11 : 38 AM. Recess starts at 12 : 04 PM. How many minutes until recess?



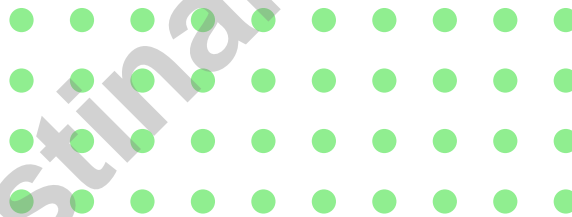
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1) This composite figure is shaped like an "L" made of unit squares:



Count all the unit squares in this L-shaped figure. How many are there?

- A. 8 unit squares C. 16 unit squares
 B. 12 unit squares D. 20 unit squares
- 2) Which property of multiplication helps you solve 8×3 by thinking about $8 \times 2 + 8 \times 1$?
- A. Commutative C. Identity
 B. Associative D. Distributive
- 3) There are 4 rows of apples. Each row has 10 apples. How many apples are there?



$$4 \times 10 = ?$$

- A. 14 C. 410
 B. 401 D. 40

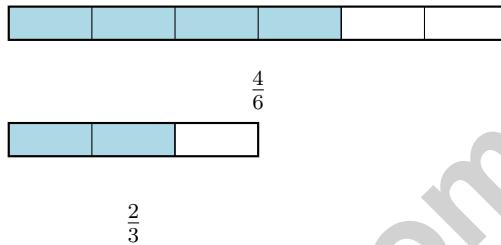


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4) A rectangle has parts with areas 24 and 18. What is the total area?



5) Which fraction is equivalent to $\frac{4}{6}$?



- A. $\frac{1}{3}$
- B. $\frac{2}{3}$

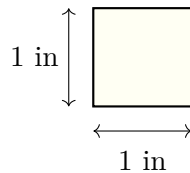
- C. $\frac{1}{2}$
- D. $\frac{3}{4}$

6) A library has 80 books in a bin. They remove 20 damaged books. The rest are placed on 4 shelves equally. How many books are on each shelf?

- A. 12
- B. 20

- C. 18
- D. 15

7) Which measurement describes a unit square in inches?



- A. Side length 2 inches, area 2 square inches
- B. Side length 1 inch, area 1 square inch

- C. Side length 1 inch, area 2 square inches
- D. Side length 2 inches, area 4 square inches

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

- 1) **Choice A is correct.** **(3.OA.A.2)** Measurement division: Divide 24 by 3 to find how many groups of 3 fit in 24. The answer is 8 groups.
- 2) **Choice C is correct.** **(3.MD.C.7)** Area = $4 \times 7 = 28$ square yards.
- 3) **Choice D is correct.** **(3.MD.D.8)** Area = length \times width = $6 \times 3 = 18$ square meters.
- 4) **Choice D is correct.** **(3.NBT.A.3)** 7 packs of 10 pencils = $7 \times 10 = 70$ pencils.
- 5) **Choice A is correct.** **(3.NF.A.2)** At 2.5 on fourths: $\frac{10}{4}$. At 3.5 on fourths: $\frac{14}{4}$.
- 6) **The correct answer is 63.** **(3.OA.B.5)** The commutative property gives $9 \times 7 = 63$.
- 7) **Choice C is correct.** **(3.MD.C.6)** The grid is 2 units wide and 4 units tall: $2 \times 4 = 8$ unit squares = 8 square units.
- 8) **Choice B is correct.** **(3.MD.C.5)** Bottom: $7 \times 3 = 21$ sq ft. Top: $3 \times 2 = 6$ sq ft. Total: $21 + 6 = 27$ sq ft.
- 9) **Choice D is correct.** **(3.OA.A.3)** Multiply: 8 rows \times 4 columns = 32 soldiers.
- 10) **Choice C is correct.** **(3.MD.B.3)** Pilar: $6 \times 5 = 30$ coins. Quinn: $4 \times 5 = 20$ coins. Difference: $30 - 20 = 10$ coins.
- 11) **Choice A is correct.** **(3.NF.A.1)** The rectangle is divided into 4 equal parts. Even though the shading might look uneven, one complete part is shaded, which is $\frac{1}{4}$.
- 12) **Choice D is correct.** **(3.NBT.A.2)** Subtract: $456 - 132 = 324$. Ones: $6 - 2 = 4$. Tens: $5 - 3 = 2$. Hundreds: $4 - 1 = 3$.
- 13) **Choice B is correct.** **(3.MD.A.1)** $1 : 16 + 29 \text{ min} = 1 : 45 \text{ PM}$.
- 14) **The correct answer is 2 X's.** **(3.MD.B.4)** Two leaves measured exactly $2\frac{1}{4}$ inches, so there would be 2 X's above the $2\frac{1}{4}$ mark.
- 15) **Choice C is correct.** **(3.NBT.A.1)** Numbers from 350 to 449 round to 400. The number 449 has tens $4 < 5$, so it rounds down to 400.
- 16) **Choice C is correct.** **(3.NF.A.3)** Divide the numerator and denominator of $\frac{2}{6}$ by 2: $\frac{2 \div 2}{6 \div 2} = \frac{1}{3}$.
- 17) **Choices A and C are correct.** **(3.MD.C.5)** Rectangles and squares with whole-number dimensions can be covered exactly by unit square tiles without gaps or leftovers. Choice A is a 3×7 rectangle = 21 tiles. Choice C is a 5×5 square = 25 tiles. Shapes with curves (B, E) or triangular points (D) cannot be covered cleanly with square tiles alone.
- 18) **Choice C is correct.** **(3.MD.A.2)** Add: $5 + 2 = 7$ kg.
- 19) **The correct answer is 8.** **(3.OA.C.7)** $72 \div 9 = 8$.
- 20) **Choice A is correct.** **(3.G.A.1)** A pentagon has 5 sides, so it is not a quadrilateral. A quadrilateral must have exactly 4 sides.
- 21) **Choice B is correct.** **(3.NF.A.3)** Same numerator (2): two halves = 1 whole, two thirds = part of a whole. Halves are bigger pieces than thirds. Rule: same numerator, smaller denominator ($2 < 3$) means bigger pieces, so $\frac{2}{2} > \frac{2}{3}$.
- 22) **Choice B is correct.** **(3.OA.D.8)** Step 1: Add: $12 + 8 = 20$ cookies. Step 2: Subtract: $20 - 6 = 14$ cookies. (Choice C is step 1 only; choice A ignores new cookies.)
- 23) **Choice B is correct.** **(3.G.A.2)** If 2 out of 6 parts are shaded, then $6 - 2 = 4$ parts are not shaded, which is $\frac{4}{6}$.
- 24) **Choice B is correct.** **(3.MD.C.5)** The shaded rectangle is 4 units wide and 3 units tall. $4 \times 3 = 12$ square units.
- 25) **Choice D is correct.** **(3.OA.A.4)** Divide: $32 \div 4 = 8$ stickers per friend.
- 26) **Choice B is correct.** **(3.NF.A.1)** Five ticks (including 0 and 1) create four equal segments. Each segment is $\frac{1}{4}$.
- 27) **Choice C is correct.** **(3.NF.A.2)** $\frac{6}{8}$ is 6 out of 8 equal parts, which is at the sixth tick mark from 0.
- 28) **Choice A is correct.** **(3.OA.B.6)** Division is an unknown-factor problem. $32 \div 8 = \square$ is the same as finding $\square \times 8 = 32$, which gives $\square = 4$. Distractors B, C, D are off-by-one or incorrect products.
- 29) **Choice A is correct.** **(3.MD.C.7)** $5 \times (4 + 3) = (5 \times 4) + (5 \times 3) = 20 + 15 = 35$. Splitting the width lets us show the distributive property with area.
- 30) **Choice A is correct.** **(3.G.A.2)** $\frac{2}{1} = 2$ (two wholes) and $\frac{4}{2} = 2$ (four halves). Both equal 2.



Hi, Math Champion!

◇ Look what you did! 8 full practice tests. That's hundreds of math problems. You started as a learner. You are now a math athlete. ◇

★ **Champions know:** hard work pays off. You did the hard work. Your math skills are strong because you practiced. ★

Champion's Stats

- **Focus:** HIGH! You stay on task.
- **Speed:** STRONG! You move at the right pace.
- **Accuracy:** SHARP! You catch your own mistakes.
- **Mindset:** CHAMPION! You believe in yourself.

Champion tip: on test day, walk in proud. You trained for this. You are ready!

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

Jay Daie

Your Math Coach

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PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



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Aligned
Questions



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Question
Types



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Math
Applications



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Tracking



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