

6

Maryland MCAP

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 Maryland MCAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Maryland MCAP. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Maryland brings bay bridges, harbor maps, crab boats, and rolling school fields. Strong math uses that same care: read the task, select a strategy, build the solution, and check units and labels before the final answer.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Maryland students, each lab is a short route through bay bridges, harbor maps, crab boats, and rolling school fields: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

| Part | What You Do | Why It Helps |
|---------------------|---|--|
| Practice Tests 1–6 | Solve six different 30-question tests. | Build stamina and see Grade 3 skills mixed together. |
| Answer Keys | Check each answer in compact boxes. | Find mistakes quickly without losing your place. |
| Explanations | Read why each answer works. | Turn missed items into a clear next step. |
| Standards Reference | See how Maryland Grade 3 standards connect to practice. | Understand the skills behind the questions. |

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Maryland MCAP path.



Scan me!
For more practice
& answers

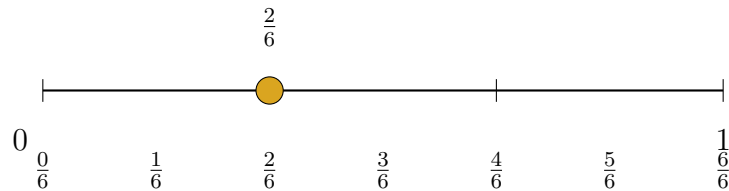
Table of Contents

| | | |
|---|-------|-----------|
| ★ Practice Test 1 | _____ | 14 |
| ★ Practice Test 2 | _____ | 25 |
| ★ Practice Test 3 | _____ | 38 |
| ★ Practice Test 4 | _____ | 50 |
| ★ Practice Test 5 | _____ | 63 |
| ★ Practice Test 6 | _____ | 75 |
| Practice Test Answer Keys | _____ | 87 |
| Practice Test Answers and Explanations | _____ | 91 |

1) $\frac{1}{3} = \frac{2}{?}$. What is the missing denominator?

- A. 4 C. 8
 B. 6 D. 9

2) Look at the number line. Which fraction equals $\frac{2}{6}$?



- A. $\frac{1}{4}$ C. $\frac{2}{3}$
 B. $\frac{1}{3}$ D. $\frac{3}{6}$

3) A number is between 50 and 60. When rounded to the nearest 10, it becomes 50. Which number could it be?

- A. 48 C. 56
 B. 52 D. 60

4) Noah has a square poster with sides of 6 inches. What is the area of the poster?

- A. 12 sq in C. 30 sq in
 B. 24 sq in D. 36 sq in

5) Eli ate $\frac{3}{3}$ of a granola bar. Mia ate $\frac{2}{3}$ of a granola bar of the same size. Who ate more?

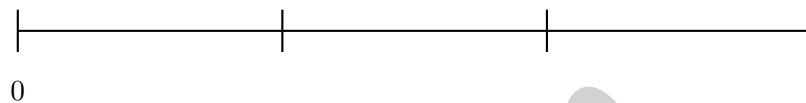
- A. Eli C. They ate the same amount
 B. Mia D. Cannot compare the fractions



- 6) Ava has 6 bags of marbles. Each bag has the same number of marbles. She has 42 marbles in all. How many marbles are in each bag?

$$6 \times \square = 42$$

- A. 9 C. 8
 B. 6 D. 7
- 7) On a number line from 0 to 1 with 3 equal parts, which fraction is NOT a tick mark?



- A. $\frac{1}{3}$ C. $\frac{3}{3}$
 B. $\frac{2}{3}$ D. $\frac{1}{4}$
- 8) An array has 3 rows and 5 columns. How many objects are in the array?



- 9) A rectangle has a length of 10 cm and a width of 2 cm. Which answer shows its area?
- A. 12 sq cm C. 20 sq cm
 B. 24 sq cm D. 30 sq cm
- 10) Look at odd numbers: 13, 15, 17, 19, 21, ...
What is the next odd number?
- A. 22 C. 24
 B. 25 D. 23



Scan me!
For more practice
& answers

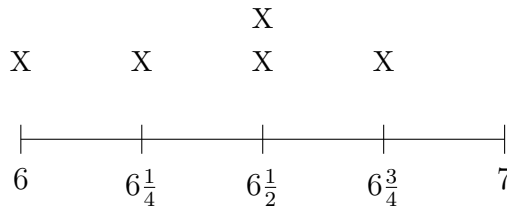
- 11) A tabletop measures 10 feet by 4 feet. What is the area of the tabletop?
- A. 14 square feet C. 28 square feet
 B. 40 square feet D. 50 square feet
- 12) Noah drew 6 boxes with 4 stars in each box. How many stars did Noah draw in total?
- A. 10 stars (adds $6 + 4$) C. 16 stars (multiplies by second number: 4×4)
 B. 15 stars D. 24 stars
- 13) What whole number equals $\frac{12}{6}$?
- A. 6 C. 12
 B. 2 D. 3
- 14) Select the TWO problems that would be solved using division.
- A. There are 8 tables. Each table has 3 chairs. How many chairs are there?
 B. A baker has 28 cookies and wants to put 4 cookies in each box. How many boxes does she need?
 C. Evan has 5 sticker sheets with 6 stickers on each sheet. How many stickers does he have?
 D. A teacher shares 36 pencils equally among 6 students. How many pencils does each student get?
 E. A store sells 9 pens in a pack. If someone buys 3 packs, how many pens do they get?



1) If $8 \times 3 = 24$, what is 3×8 ?

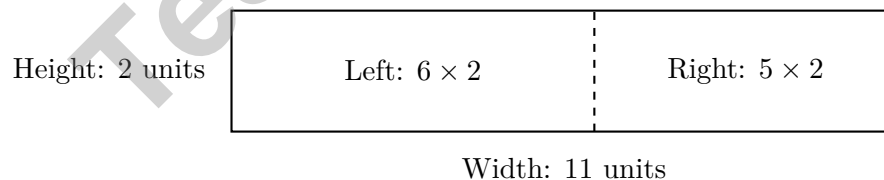
- A. 11 C. 27
 B. 21 D. 24

2) A line plot shows fish tank measurements in inches using quarters: $6, 6\frac{1}{4}, 6\frac{1}{2}, 6\frac{3}{4}, 7$.



How many measurements in total?

- A. 5 C. 4
 B. 6 D. 7
- 3) What is $620 - 387$?
- A. 233 C. 333
 B. 243 D. 343
- 4) This shows a distributive property example:



What is the equation in distributive form?

- A. $2 \times (6 + 5) = 22$ C. $6 + 5 = 11$
 B. $(2 \times 6) + (2 \times 5) = 12 + 10 = 22$ D. $(6 \times 5) + (2) = 32$



5) What number makes the equation true?

$$\square \div 3 = 7$$

A. 18

C. 24

B. 20

D. 21

6) Find $56 \div 8$. (Hint: Use a multiplication fact.)

7) A picture graph shows toys. Rio has 8 symbols (scale: 3 toys per symbol). Alex has 5 symbols (scale: 3 toys per symbol). How many fewer toys does Alex have than Rio?

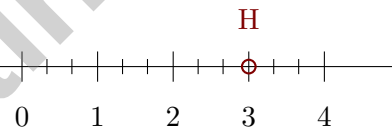
A. 3

C. 9

B. 6

D. 12

8)



The number line from 0 to 4 is divided into thirds. Point H is at the whole number 3. How many thirds from 0 to reach 3?

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

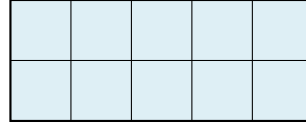
C. $\frac{9}{3}$

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

D. $\frac{12}{3}$



Scan me!
For more practice
& answers



1)

What is the total area of this grid measured in unit squares?

- A. 7 square units C. 12 square units
 B. 10 square units D. 15 square units

2) Sam has fact cards for $3 \times 6 = 18$. Which division fact is related?

- A. $18 \div 3 = 6$ C. $6 \div 3 = 2$
 B. $18 \div 2 = 9$ D. $18 + 3 = 21$

3) Which pair of equations shows the commutative property with 3, 4, and 12?

- A. $3 + 4 = 7$ and $4 + 3 = 7$ C. $12 - 3 = 9$ and $12 - 4 = 8$
 B. $3 \times 3 = 9$ and $4 \times 3 = 12$ D. $3 \times 4 = 12$ and $4 \times 3 = 12$

4) Emma measured twig lengths in inches. At the 4 inch mark, there are 5 X's. At the $4\frac{1}{4}$ inch mark, there are 3 X's. How many more twigs are exactly 4 inches long than $4\frac{1}{4}$ inches long?

- A. 1 C. 3
 B. 2 D. 8

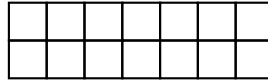
5) How does area differ from perimeter?

- A. Area is always larger than perimeter C. Area measures inside; perimeter measures distance around
 B. Perimeter measures inside; area measures distance around D. Both measure the same thing differently



Scan me!
For more practice
& answers

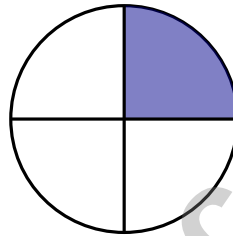
6) Look at this grid:



The area is:

- A. 9 sq units C. 16 sq units
 B. 14 sq units D. 18 sq units

7) Look at the circle. It is divided into 4 equal parts. One part is shaded.



What fraction is shaded?

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



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.

Testinar.com



Scan me!
For more practice
& answers

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(3.NF.A.3)** The numerator was multiplied by 2 (from 1 to 2). Multiply the denominator by 2: $3 \times 2 = 6$. So $\frac{1}{3} = \frac{2}{6}$.
- Choice B is correct.** **(3.NF.A.3)** On the number line, $\frac{2}{6}$ and $\frac{1}{3}$ mark the same point.
- Choice B is correct.** **(3.NBT.A.1)** Numbers from 45 to 54 round to 50. Choice A (48) rounds to 50, but is not between 50–60. Choice B (52) is in range 50–60 and rounds to 50 (ones digit $2 < 5$). Choice C (56) rounds to 60. Choice D is 60 itself, rounds to 60.
- Choice D is correct.** **(3.MD.C.6)** Area of a square = $6 \times 6 = 36$ square inches.
- Choice A is correct.** **(3.NF.A.3)** Eli ate the whole bar because $\frac{3}{3} = 1$. Mia ate less than the whole bar, so Eli ate more.
- Choice D is correct.** **(3.OA.A.4)** Divide: $42 \div 6 = 7$ marbles per bag. Check: $6 \times 7 = 42$.
- Choice D is correct.** **(3.NF.A.2)** The line is divided into thirds, so $\frac{1}{4}$ is not a tick mark on this particular number line.
- The correct answer is 15.** **(3.OA.B.5)** $3 \times 5 = 15$.
- Choice C is correct.** **(3.MD.C.7)** Area = $10 \times 2 = 20$ square cm.
- Choice D is correct.** **(3.OA.D.9)** Odd numbers increase by 2 each time. $21 + 2 = 23$.
- Choice B is correct.** **(3.MD.C.5)** Multiply length by width: $10 \times 4 = 40$ square feet.
- Choice D is correct.** **(3.OA.A.1)** 6 boxes with 4 stars in each box means 6 groups of 4. So $6 \times 4 = 24$ stars.
- Choice B is correct.** **(3.G.A.2)** 12 sixths divided into groups of 6 sixths (one whole) gives 2 wholes. $12 \div 6 = 2$.
- Choices B and D are correct.** **(3.OA.A.3)** B uses division to find how many boxes are needed, and D uses division to share pencils equally. A, C, and E require multiplication.
- Choice D is correct.** **(3.OA.C.7)** If $8 \times 8 = 64$, then $64 \div 8 = 8$. Multiplication and division are related.
- Choice C is correct.** **(3.G.A.2)** Three colored parts out of 6 equal parts is $\frac{3}{6}$.
- Choice B is correct.** **(3.MD.A.2)** Subtract the milk already in the cup: $900 - 600 = 300$ mL needed.
- Choice A is correct.** **(3.NF.A.2)** Cake A has $\frac{1}{2}$ left. Cake B has $\frac{3}{6}$ left. $\frac{1}{2} = \frac{3}{6}$.
- Choice C is correct.** **(3.MD.B.3)** Multiply bar height by scale: $4 \times 5 = 20$ items.
- Choice A is correct.** **(3.OA.A.2)** If $24 \div ? = 4$, then $? = 24 \div 4 = 6$. Check: $24 \div 6 = 4$ is correct.
- The correct answer is 0 right angles.** **(3.G.A.1)** A trapezoid can have no right angles.
- Choice C is correct.** **(3.MD.D.8)** Area = length \times width = $7 \times 4 = 28$ square inches.
- Choice A is correct.** **(3.OA.D.8)** Step 1: Subtract: $35 - 5 = 30$ apples. Step 2: Divide: $30 \div 6 = 5$ apples per friend. (Choice D is step 1 only.)
- Choice D is correct.** **(3.OA.B.6)** $63 \div 9 = \square$ means $\square \times 9 = 63$. Since $7 \times 9 = 63$, the answer is 7.
- Choice A is correct.** **(3.NF.A.1)** The denominator (bottom number) tells us how many equal parts the whole is divided into. For example, in $\frac{1}{4}$, the 4 means the whole is divided into 4 equal parts.
- The correct answer is 4 plants.** **(3.MD.B.4)** At least 9 inches means $9, 9\frac{1}{2}$, and 10 inches: $0 + 1 + 3 = 4$ plants.
- Choice A is correct.** **(3.MD.A.1)** From 7 : 05 to 8 : 05 is 60 minutes. $95 - 60 = 35$ more minutes. $8 : 05 + 35 \text{ min} = 8 : 40$ PM.
- Choice B is correct.** **(3.MD.C.5)** Bottom: $5 \times 2 = 10$ sq units. Top: $2 \times 2 = 4$ sq units. Total: $10 + 4 = 14$ sq units.
- Choice B is correct.** **(3.NF.A.2)** Counting from 0: each small tick mark is $\frac{1}{2}$. Point S is at the 5th tick (at position 2.5), so it is $5 \times \frac{1}{2} = \frac{5}{2}$.
- Choice D is correct.** **(3.NBT.A.2)** Add: $176 + 245 = 421$. Ones: $6 + 5 = 11$ (write 1, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $1 + 2 + 1 = 4$.

Practice Test 2 Answers and Explanations



Scan me!
For more practice
& answers

Hi, Hero!

◇ Once there was a Grade 3 student who took 6 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.

Jay Daie

Your Math Storyteller

BUILD CONFIDENCE. MASTER MATH. ACHIEVE SUCCESS!



This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Test Preparation

★ **PREPARE TODAY.
SUCCEED TOMORROW!**

WHAT STUDENTS WILL GAIN:



Stronger Concepts

Reinforce key Grade 3 math skills and build a solid foundation.



Better Problem Solving

Develop critical thinking and solve problems with ease.



Test Confidence

Get familiar with test formats and reduce exam stress.



Track Progress

Measure improvement and focus on areas that matter.



Achieve Success

Build the skills and confidence to reach higher goals.

TOPICS COVERED:

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



Visit testinar.com/math5 for more Grade 3 math resources and practice materials!

PRACTICE MORE. ACHIEVE MORE.

Give your child the tools they need to succeed in math and beyond!



Aligns with Grade 3 Learning Standards



Builds Critical Thinking & Problem-Solving