

5

Maryland

MCAP

GRADE 3

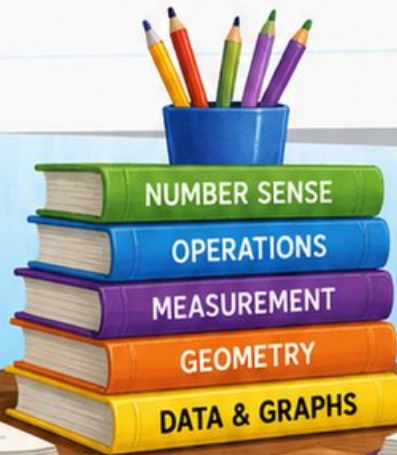
MATH

PRACTICE TESTS

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

$24 \div 3 = 8$

$125 + 37$



5 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED PRACTICE



DETAILED ANSWER KEYS



CLEAR EXPLANATIONS TO HELP YOU SUCCEED

5 Maryland MCAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Maryland MCAP. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Maryland has Chesapeake shores, city routes, blue crab bays, and waterways that connect many small choices. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

Notice

Circle key words, units, and numbers before you start.

Build

Use arrays, number lines, equations, tables, or sketches.

Verify

Ask, "Does this answer fit the question?"

Five-checkpoint promise: I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

Best review habit: Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	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. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	28
★ Practice Test 3	_____	40
★ Practice Test 4	_____	53
★ Practice Test 5	_____	65
Practice Test Answer Keys	_____	77
Practice Test Answers and Explanations	_____	81

1) A piece of ribbon is divided into 2 equal lengths on a number line from 0 to 1. What is the unit fraction?

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

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

C. $\frac{1}{1}$

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

2) Which missing divisor makes this division sentence true?

$$18 \div _ = 3$$

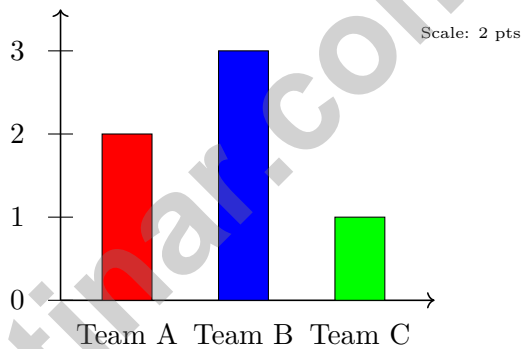
A. 5

B. 15

C. 21

D. 6

3) A bar graph shows points scored. Scale is 2 points per unit. Read the three bars.



A. Total points: 16

B. Total points: 14

C. Total points: 12

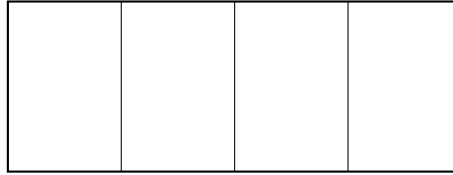
D. Total points: 18

4) Ava wants to build a square using unit squares (each 1 inch by 1 inch). If her square is 5 inches on each side, how many unit squares does she need?

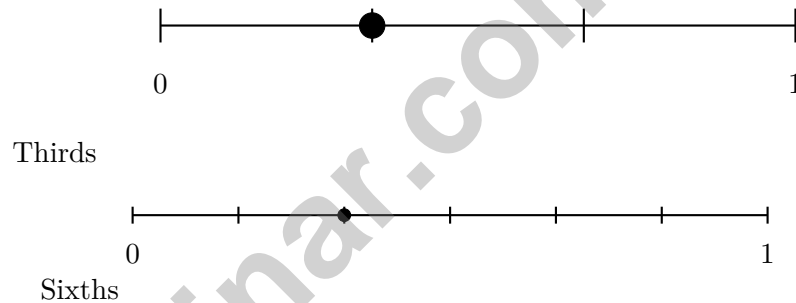


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- 9) A rectangle is divided with 3 vertical lines making 4 equal columns. How many parts is the rectangle divided into?



- A. 2 parts
- B. 5 parts
- C. 3 parts
- D. 4 parts
- 10) Two different number lines show 0 to 1. Compare $\frac{1}{3}$ on a thirds line with $\frac{2}{6}$ on a sixths line. Which is true?



- A. $\frac{1}{3}$ is greater
- B. $\frac{2}{6}$ is greater
- C. They are equal
- D. Cannot be compared



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1) Which bar shows 3 wholes using the fraction $\frac{6}{2}$?



- A. Yes, it shows 3 wholes C. No, it shows 6 wholes
 B. No, it shows 2 wholes D. No, it shows 1 whole

2) What is $80 \div 8$?

- A. 8 C. 10
 B. 9 D. 12

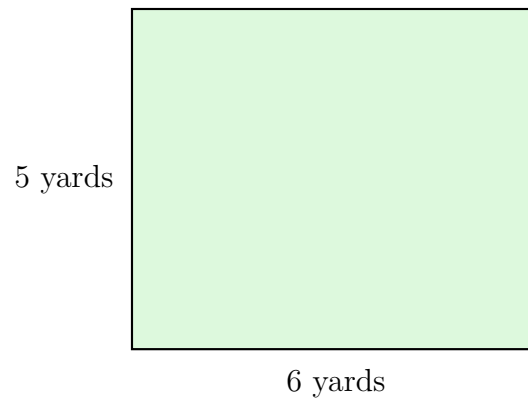
3) A rectangle on a grid has 8 columns and 5 rows of unit squares. Explain one way you could count all the unit squares.



4) A classroom has a floor that is completely covered with square tiles. The floor is 8 tiles long and 5 tiles wide. Does the size of each tile affect how many tiles cover the floor?

- A. Yes, bigger tiles need fewer to cover the area C. Tiles don't affect area at all
 B. No, you always need $8 \times 5 = 40$ tiles no matter tile size D. Area depends only on the number of tiles





5)

A rectangular lawn is 6 yards long and 5 yards wide. What is its area?

 A. 22 sq yd C. 11 sq yd B. 60 sq yd D. 30 sq yd

6) What number makes the equation true?

$$\square \div 4 = 6$$

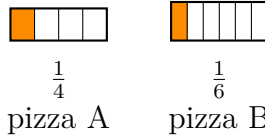
 A. 10 C. 28 B. 18 D. 24

7) Complete the fact family:

$$5 \times 7 = 35 \quad 7 \times 5 = 35 \quad 35 \div 5 = \square \quad 35 \div 7 = \square$$

 A. 7 and 5 C. 35 and 35 B. 5 and 7 D. 10 and 10

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1)

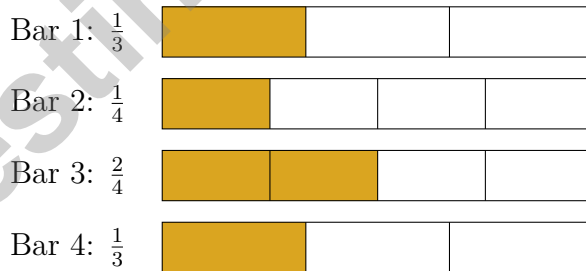
The bars show $\frac{1}{4}$ of pizza A and $\frac{1}{6}$ of pizza B. Pizza B is bigger than pizza A. Can you say $\frac{1}{4} > \frac{1}{6}$?

- A. Yes, because fourths are always bigger than sixths
- B. No, we can only compare when the wholes are the same size
- C. Yes, the picture shows it
- D. No, because 6 is bigger than 4

2) Sam plants 7 rows of tomato seeds with 8 seeds in each row. Some seeds do not grow and only 50 seeds sprout. How many seeds did not sprout?

- A. 6
- B. 8
- C. 15
- D. 56

3) Look at the bars. Which pair shows the same-size shaded region?



- A. Bar 1 and Bar 4
- B. Bar 2 and Bar 3
- C. Bar 1 and Bar 2
- D. Bar 3 and Bar 4

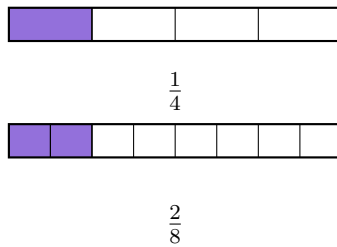


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4) Ava draws two number lines from 0 to 1. One is split into 3 equal parts; the other is split into 4 equal parts. Which unit fraction represents a smaller piece?

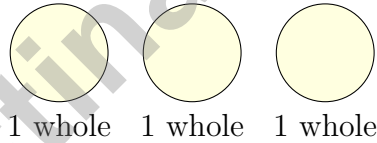
- A. $\frac{1}{3}$
 C. Both are equal
 B. $\frac{1}{4}$
 D. Cannot tell

5) Which fraction is equivalent to $\frac{2}{8}$?



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

6) Jon has 3 whole pizzas. How can we write this as a fraction?



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

7) A rectangular poster has an area of 72 square inches. If the width is 8 inches, what is the height?

- A. 9 inches
 C. 64 inches
 B. 80 inches
 D. 10 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.NF.A.2a)** Two equal parts gives unit fraction $\frac{1}{2}$.
- 2) **Choice D is correct.** **(3.OA.A.2)** If $18 \div ? = 3$, then $? = 6$ because $6 \times 3 = 18$. Check: $18 \div 6 = 3$ is correct.
- 3) **Choice C is correct.** **(3.MD.B.3)** Team A: $2 \times 2 = 4$. Team B: $3 \times 2 = 6$. Team C: $1 \times 2 = 2$. Total: $4 + 6 + 2 = 12$.
- 4) **The correct answer is 25 unit squares.** **(3.MD.C.5a)** A square with side length 5 inches has area $5 \times 5 = 25$ square inches, which equals 25 unit squares.
- 5) **Choice C is correct.** **(3.OA.D.9)** Add 6 each time: $30 + 6 = 36$. This is skip counting by 6.
- 6) **Choice B is correct.** **(3.MD.A.1)** $7 : 20 + 87 \text{ min} = 7 : 20 + 60 \text{ min} + 27 \text{ min} = 8 : 20 + 27 \text{ min} = 8 : 47 \text{ PM}$.
- 7) **Choice B is correct.** **(3.NF.A.3c)** Any whole number can be written as that number over 1. So $3 = \frac{3}{1}$. (D) equals 1, not 3.
- 8) **Choice A is correct.** **(3.NF.A.3d)** Two halves equals 1. Two fourths is less than 1. So $\frac{2}{4} < \frac{2}{2}$.
- 9) **Choice D is correct.** **(3.G.A.2)** Three vertical lines create 4 equal columns, so the rectangle is divided into 4 parts.
- 10) **Choice C is correct.** **(3.NF.A.2)** $\frac{1}{3}$ and $\frac{2}{6}$ mark the same point on the number line from 0 to 1. They represent the same fraction.
- 11) **Choice B is correct.** **(3.MD.C.7)** The grid has 4 columns and 5 rows. Area = $4 \times 5 = 20$ square inches. You can also add: $4 + 4 + 4 + 4 + 4 = 20$ (five rows of four).
- 12) **Choice B is correct.** **(3.MD.C.5b)** $8 \times 5 = 40$ unit squares, so area is 40 square units.
- 13) **Choice B is correct.** **(3.MD.C.7c)** $21 = 3 \times 7$ and $12 = 3 \times 4$. The distributive property shows the total as $3 \times (7 + 4) = 33$.
- 14) **Choice C is correct.** **(3.MD.B.4)** The mode is the value with the most X's. At $16\frac{1}{2}$, there are 3 X's, which is more than any other value.
- 15) **Choice C is correct.** **(3.MD.A.2)** $5 \text{ L} = 5000 \text{ mL}$. Divide: $5000 \div 200 = 25$ glasses. Tests estimation.
- 16) **Choices A and C are correct.** **(3.OA.A.4)** Equations A and C belong to the same fact family because both use the numbers 5, 7, and 35. Choices B, D, and E use different numbers.
- 17) **Choice D is correct.** **(3.OA.A.3)** Divide: $20 \div 4 = 5$ packs.
- 18) **Choice A is correct.** **(3.OA.C.7)** $3 \times 8 = 24$. Think of three groups of 8: $8 + 8 + 8 = 24$.
- 19) **Choice D is correct.** **(3.OA.A.1)** The grid has 3 columns and 4 rows of small squares. So $3 \times 4 = 12$ squares.
- 20) **Choice A is correct.** **(3.OA.B.6)** $24 \div 6 = \square$ means $\square \times 6 = 24$. Since $4 \times 6 = 24$, each friend gets 4 crackers. We use a multiplication fact to solve the division problem.
- 21) **Choice D is correct.** **(3.OA.B.5)** $5 \times 6 = 30$ and $5 \times 3 = 15$, so $30 + 15 = 45$. Also $5 \times 9 = 45$.
- 22) **The correct answer is 6.** **(3.NF.A.3a)** The denominator doubles, so the numerator doubles: $3 \times 2 = 6$.
- 23) **Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $9 \times 3 = 27$ square yards.
- 24) **Choice B is correct.** **(3.MD.C.7d)** Add the parts: $20 + 15 = 35$ square units.
- 25) **Choice A is correct.** **(3.OA.D.8)** Step 1: Team A total: $4 + 5 = 9$ goals. Step 2: How many more than Team B: $9 - 6 = 3$ more goals. Choices A and B both work (parentheses clarify order), but A is clearer.
- 26) **Choice C is correct.** **(3.NF.A.3b)** Circle 1 shows $\frac{1}{2}$ (half shaded) and Circle 3 shows $\frac{2}{4}$ (half shaded). These are equivalent because $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- 27) **The correct answer is $\frac{2}{4}$.** **(3.NF.A.2b)** $\frac{2}{4} = \frac{1}{2}$.
- 28) **Choice A is correct.** **(3.NBT.A.2)** Regroup 803 as 7 hundreds, 9 tens, 13 ones. Ones: $13 - 7 = 6$. Tens: $9 - 6 = 3$ (after regrouping ones). Hundreds: $7 - 3 = 4$ (after regrouping tens). Answer: 436.
- 29) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 5. Since $5 \geq 5$, round up: 756 rounds to 800.
- 30) **Choice D is correct.** **(3.NBT.A.3)** Skip count by 10s: 10, 20, 30. There are 3 groups of 10 stars, so $3 \times 10 = 30$ stars total.



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Hi, Curious Scientist!

◇ 5 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

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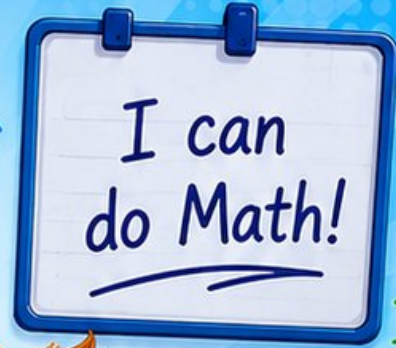
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$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



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