

# 4

# Mississippi MAAP

## Grade 3

# MATH

## PRACTICE TESTS

Standards-Aligned Practice



### STANDARDS-ALIGNED

Practice to build skills and boost confidence



### 4 FULL-LENGTH TESTS

Realistic questions to prepare for test day



### ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



# 4 Mississippi MAAP Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Four focused 30-question missions for Grade 3 math: number 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 Mississippi Math Launch

Four missions, careful work, and a stronger Grade 3 thinker



Read the mission. Show the work. Check the answer. Launch again.

## To the Grade 3 Mission Leader

This book is a four-mission practice launch for the Mississippi MAAP. Each test gives you a fresh chance to multiply, divide, read graphs, compare fractions, measure, find area, and explain math in a way someone else can follow.

Mississippi has river stories, pine woods, and warm classrooms where steady practice grows. Good math uses the same habit: pause, check the details, and move forward with a steady plan.

### Notice

Find the numbers, units, and question before choosing a path.

### Model

Draw an array, number line, table, or quick equation.

### Verify

Ask whether your answer fits the story and the unit.

**Launch promise:** I will slow down at the important moments, show the work I can, and use every miss as a clue for the next mission.

# How to Use This Book

A four-mission routine for steady Grade 3 growth

## 1. Warm Up the System

Read the review pages first. Remind your brain how equal groups, fractions, clocks, graphs, and area models work.

## 2. Fly One Mission

Take one complete 30-question test. Keep your work neat enough that you can check it later.

## 3. Review the Flight

Use the answer key, then pause. A wrong answer is useful when you can name what happened.

## 4. Repair and Relaunch

Rework a few missed questions before starting the next test. The repair step is where the score begins to move.

### A Four-Session Plan

<b>Session 1</b>	Take Test 1 and mark the topics that need attention.
<b>Session 2</b>	Take Test 2 and focus on showing every step clearly.
<b>Session 3</b>	Take Test 3 and watch for units, labels, and two-step problems.
<b>Session 4</b>	Take Test 4 and finish with calm, careful checking.

**Best mission habit:** After checking answers, write one sentence: “Next time I will pay attention to \_\_\_\_\_.”



# Test Overview

## What each Grade 3 math mission asks you to do

Each practice test has 30 questions. Across four tests, you will practice the kind of Grade 3 math thinking used on the Mississippi MAAP: reading carefully, choosing a strategy, doing accurate computation, and explaining enough work to make your answer clear.

### Multiple Choice

Look for the best answer. Estimate first when you can, cross out choices that do not fit, and reread the question before you choose.

### Open Response

Write the answer and show the reason. A good Grade 3 response may use a drawing, equation, table, number line, or a few clear words.

### Math Ideas Inside the Four Tests

- multiplication, division, arrays, missing factors, and two-step word problems
- place value, rounding, addition, subtraction, and multiplying by tens
- unit fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shape categories

**What strong MAAP work looks like:** the answer matches the question, the units make sense, and the work is clear enough to check.



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& answers

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1) A rectangular carpet is 10 centimeters long and 5 centimeters wide. What is its area?

- A. 15 sq cm                       C. 50 sq cm  
 B. 30 sq cm                       D. 55 sq cm

2) Lily is arranging unit square stickers on a rectangular poster. The poster is 9 units tall and 2 units wide. How many stickers will she use to cover it completely?

- A. 18 stickers                       C. 27 stickers  
 B. 11 stickers                       D. 36 stickers

3) What is the fewest right angles a trapezoid can have?



4) Which fraction is EQUAL to  $\frac{1}{2}$  on a number line with 6 equal parts?



- A.  $\frac{2}{6}$                                        C.  $\frac{4}{6}$   
 B.  $\frac{3}{6}$                                        D.  $\frac{5}{6}$

5) Complete:  $\square \times 7 = 63$

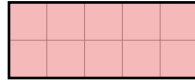
- A. 7                                       C. 10  
 B. 8                                       D. 9







1) This rectangle is divided into unit squares.



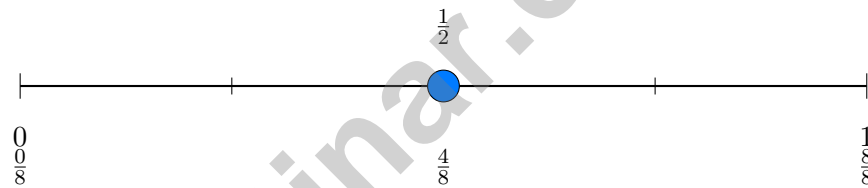
Which multiplication sentence shows the area?

- A.  $5 \times 2 = 10$ 
 C.  $2 \times 2 = 4$   
 B.  $5 \times 5 = 25$ 
 D.  $7 \times 2 = 14$

2) Eli makes baskets with 10 apples in each basket. If Eli makes 8 baskets, how many apples are needed?

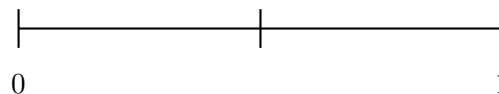
- A. 18 (added instead of multiplied)
  C. 810 (digit concatenation)  
 B. 80
  D. 800 (added two zeros)

3) Select the equivalent fraction to  $\frac{4}{8}$  shown on the number line.



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

4) On a number line from 0 to 1 divided into 2 equal parts, which tick mark shows  $\frac{1}{2}$ ?



- A. The tick at 0
  C. The tick at 1  
 B. The middle tick
  D. The whole line from 0 to 1



- 5) A watering can holds 5 liters. Sam uses 2 liters to water the garden and 1500 mL to water the pots. How many milliliters of water remain in the can?

- 6)  $293 + 158 = ?$

- A. 451                                       C. 441  
 B. 452                                       D. 461

- 7) Sam solved this problem:  $\square \times 8 = 56$ . He wrote the answer  $\square = 7$ . Is his answer correct?

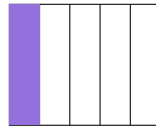
- A. Yes, because  $7 \times 8 = 56$ .                                       C. No, the correct answer is 8.  
 B. No, the correct answer is 6.                                       D. No, the correct answer is 9.

- 8) Which picture shows  $\frac{1}{4}$  shaded?

A



B



C



- A. Picture A                                       C. Picture C  
 B. Picture B                                       D. None of these

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



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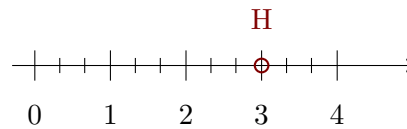
5) Which pair of equations shows the commutative property with 3, 4, and 12?

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  $4 \times 3 = 12$



6)

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.  $\frac{12}{3}$

7) Which problem equals 350? Check each one.

A.  $5 \times 70 = (5 \times 7) \times 10 = 35 \times 10 = 350$

C.  $5 \times 50 = (5 \times 5) \times 10 = 25 \times 10 = 250$

✓

D.  $7 \times 70 = (7 \times 7) \times 10 = 49 \times 10 = 490$

B.  $7 \times 40 = (7 \times 4) \times 10 = 28 \times 10 = 280$

8) Which fraction is equivalent to  $\frac{1}{2}$ ?

A.  $\frac{1}{4}$

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

B.  $\frac{2}{4}$

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

9) 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



## 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 C is correct.** **(3.MD.C.6)** Area =  $10 \times 5 = 50$  square centimeters.
- Choice A is correct.** **(3.MD.C.5b)**  $9 \times 2 = 18$  unit square stickers are needed.
- The correct answer is 0 right angles.** **(3.G.A.1)** A trapezoid can have no right angles.
- Choice B is correct.** **(3.NF.A.2)**  $\frac{3}{6}$  and  $\frac{1}{2}$  mark the same point: the middle of the line.
- Choice D is correct.** **(3.OA.B.6)** The missing factor is 9 because  $9 \times 7 = 63$ . This is the same as saying  $63 \div 7 = 9$ .
- Choice B is correct.** **(3.OA.D.8)** Step 1: Multiply:  $3 \times 5 = 15$  apples. Step 2: Subtract:  $15 - 3 = 12$  apples left. (Choice C is step 1 only; choice A miscalculates step 2.)
- Choice B is correct.** **(3.NF.A.3b)** Pie 1 shows  $\frac{1}{2}$  (half shaded) and Pie 3 shows  $\frac{2}{4}$  (half shaded). Both represent the same amount:  $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$ .
- Choice C is correct.** **(3.MD.C.7c)** Adding the numbers instead of multiplying does not use the distributive property or find the area correctly.
- The correct answer is  $\frac{1}{3}$ .** **(3.G.A.2)** If 2 out of 3 parts are shaded, then 1 part is not shaded, which is  $\frac{1}{3}$ .
- Choice B is correct.** **(3.NF.A.3a)** Pie A has  $\frac{1}{4}$  left. Pie B has  $\frac{2}{8}$  left. These are equivalent:  $\frac{1}{4} = \frac{2}{8}$ .
- The correct answer is 10.** **(3.OA.A.1)** The addition has five groups of 2 added together. So  $2 + 2 + 2 + 2 + 2 = 5 \times 2 = 10$ .
- Choice A is correct.** **(3.OA.A.3)** Multiply: 6 baskets  $\times$  7 apples per basket = 42 apples.
- Choice A is correct.** **(3.NBT.A.2)** Ones:  $2 - 8$  requires regrouping, so  $12 - 8 = 4$ . Tens:  $9 - 1 = 8$  (after regrouping). Hundreds:  $8 - 4 = 4$ . Answer: 484.
- Choices A and C are correct.** **(3.MD.C.7)** A is correct (the standard formula for area). C is correct (counting squares is repeated addition: width + width + ... = length  $\times$  width). B, D, E are incorrect: they describe perimeter or other non-area operations.
- Choice A is correct.** **(3.NF.A.3d)** Three thirds is one whole. Three eighths is less than one whole. So  $\frac{3}{3} > \frac{3}{8}$ .
- Choice A is correct.** **(3.OA.D.9)** 1, 3, and 5 are odd numbers (shown in blue). 2 and 4 are even (shown in red).
- Choice B is correct.** **(3.NF.A.3c)** 10 halves  $\div$  2 halves per whole =  $10 \div 2 = 5$  wholes.
- Choice A is correct.** **(3.MD.B.4)** The value with the most X's is the mode. At 2 inches, there are 3 X's. This is more than any other value.
- Choice A is correct.** **(3.MD.C.7d)** Add the areas:  $18 + 11 = 29$  square units. Choice B (only one part) and C (subtraction) are common errors.
- Choice D is correct.** **(3.OA.B.5)**  $3 \times 2 = 6$  and  $3 \times 1 = 3$ , so  $6 + 3 = 9$ . Also  $3 \times 3 = 9$ .
- Choice B is correct.** **(3.MD.C.7a)**  $5 \times 3 = 15$  square units.
- Choice C is correct.** **(3.NF.A.3)**  $\frac{2}{3}$  and  $\frac{4}{6}$  show the same shaded amount.
- Choice A is correct.** **(3.MD.C.5a)** Shape A is 1 unit wide and 5 units tall ( $1 \times 5 = 5$ ). Shape B is 5 units wide and 1 unit tall ( $5 \times 1 = 5$ ).
- 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.
- Choice A is correct.** **(3.OA.A.2)** The picture shows 18 items shared into 3 equal groups of 6 each. So  $18 \div 3 = 6$ .
- Choice A is correct.** **(3.OA.A.4)** To find the number of bags, divide the total marbles by the marbles in each bag:  $72 \div 8 = 9$ .
- Choice D is correct.** **(3.NBT.A.1)** The tens digit is 5. Since  $5 \geq 5$ , round up: 751 rounds to 800.
- Choice A is correct.** **(3.MD.C.5)** Shape X has an area of 15 square units, which is larger than Shape Y's 9 square units. More space inside means greater area.
- Choice D is correct.** **(3.OA.C.7)**  $40 \div 5 = 8$  because  $8 \times 5 = 40$ .
- Choice D is correct.** **(3.NF.A.2b)**  $\frac{5}{3} = 1\frac{2}{3} \approx 1.67$ . This is past 1.



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Cheer Squad Final Pep Talk

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## Hi, Math Star!

◇ 4 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 4 times. That's real confidence. It is not pretend! ★

### Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

**Cheer tip:** on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Cheerleader

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