

# 6

# Missouri MAP

## 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 Missouri MAP 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](http://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 Missouri MAP. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Missouri brings river arches, cave tours, farm roads, and city neighborhoods. Strong math uses that same care: read the task, select a strategy, build the solution, and test each answer against the question.

### 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 Missouri students, each lab is a short route through river arches, cave tours, farm roads, and city neighborhoods: 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 Missouri Grade 3 standards connect to practice.	Understand the skills behind the questions.

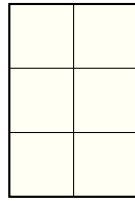
Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Missouri MAP path.



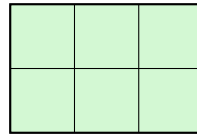
Scan me!  
For more practice  
& answers

# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	26
★ Practice Test 3	_____	38
★ Practice Test 4	_____	50
★ Practice Test 5	_____	62
★ Practice Test 6	_____	75
<b>Practice Test Answer Keys</b>	_____	<b>87</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>91</b>



Y



Z

1)

Shapes Y and Z are both made of unit squares. Which is true?

- A. Y has area 6, Z has area 6       C. Y has area 4, Z has area 8  
 B. Y has area 5, Z has area 5       D. Y has area 2, Z has area 3

2) A garden is arranged in an array with 7 rows and 3 plants in each row. How many plants are in the garden?

- A. 21       C. 10  
 B. 19       D. 24

3) In a multiplication table, the diagonal shows:  $1 \times 1 = 1$ ,  $2 \times 2 = 4$ ,  $3 \times 3 = 9$ ,  $4 \times 4 = 16$ .

What is  $5 \times 5$ ?

- A. 20       C. 25  
 B. 24       D. 30

4) What is  $9 \times 4$ ?

- A. 32       C. 36  
 B. 35       D. 40



5) If a number line from 0 to 1 has 8 equal parts, how far is the fifth tick from 0?

- A.  $\frac{1}{8}$   
 B.  $\frac{4}{8}$

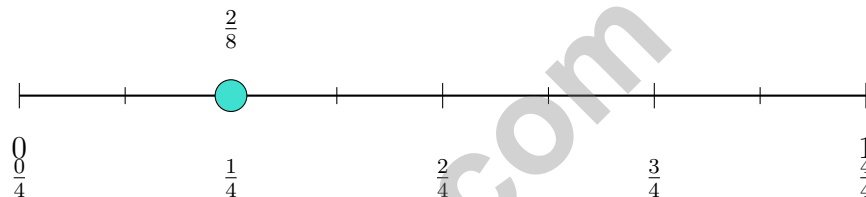
- C.  $\frac{5}{8}$   
 D.  $\frac{8}{8}$

6) Which equation is false?

- A.  $7 \times (2 + 8) = 7 \times 2 + 7 \times 8$   
 B.  $9 \times (3 + 4) = 9 \times 3 + 9 \times 4$

- C.  $5 \times (6 + 1) = 5 \times 6 + 5 \times 1$   
 D.  $6 \times (5 + 2) = 6 \times 5 - 6 \times 2$

7) Which fraction is equivalent to  $\frac{1}{4}$ ?



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

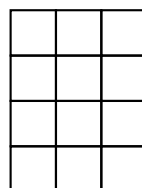
- C.  $\frac{1}{3}$   
 D.  $\frac{2}{4}$

8) Ben reads for 18 minutes starting at 4 : 07 PM. At what time does Ben stop reading?

- A. 4 : 15 PM  
 B. 4 : 20 PM

- C. 4 : 25 PM  
 D. 4 : 30 PM

9) Ava is looking at this shape made of unit squares:



How many unit squares cover this shape?

- A. 7 unit squares  
 B. 10 unit squares

- C. 12 unit squares  
 D. 15 unit squares



Scan me!  
 For more practice  
 & answers

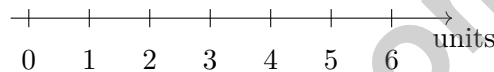
10)



How many small squares are in this array?

- A. 8 squares                       C. 12 squares  
 B. 7 squares                       D. 10 squares

11)



On a number line, the distance from 0 to 4 is divided into fourths. Which mark shows  $\frac{3}{4}$  of the distance from 0 to 4?

- A. 3.5                               C. 4  
 B. 2                                   D. 3

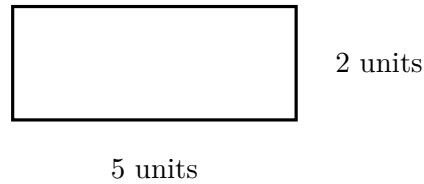
12)

Hundreds	Tens	Ones	Total	?
----------	------	------	-------	---

Lily has 3 hundreds, 2 tens, and 6 ones. Her friend gives her 1 hundred, 4 tens, and 7 ones. What is the total?

- A. 473                               C. 513  
 B. 503                               D. 523

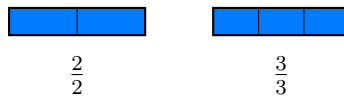




1)

What is the area of this rectangle?

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



2)

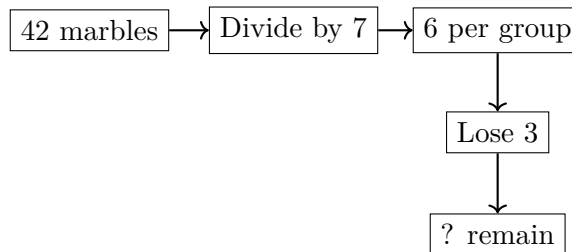
The bars show two fractions. Are they equal?

- A. Yes, they are equal                       C. No,  $\frac{3}{3}$  is larger  
 B. No,  $\frac{2}{2}$  is larger                           D. Cannot tell

3) Eli's drawing pad is 10 centimeters long and 6 centimeters wide. What is its area?

- A. 16 sq cm                                   C. 50 sq cm  
 B. 32 sq cm                                   D. 60 sq cm

4) Tommy has 42 marbles. He divides them into 7 equal groups for a game. Then he loses 3 marbles from one group. How many marbles are in that group now?



- A. 3     C. 7  
 B. 6     D. 42

5) A rectangle has area  $6 \times (3 + 2)$ . Which calculation uses the distributive property correctly?

A.  $6 \times 5 = 30$

C.  $6 + 3 + 2 = 11$

B.  $(6 \times 3) + (6 \times 2) = 18 + 12 = 30$

D.  $(3 \times 2) + (6) = 12$

6) An L-shaped field is divided by a dashed line. The top rectangle is 6 units by 4 units. The bottom rectangle is 5 units by 3 units. What is the total area?

A. 24 sq units

C. 15 sq units

B. 39 sq units

D. 360 sq units

7)  $245 + 318 = ?$

A. 563

C. 573

B. 572

D. 562

8) Round 608 to the nearest 10.

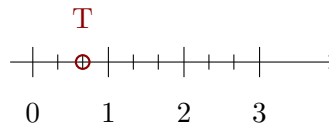
A. 600

C. 610

B. 608

D. 700

9)



The number line shows tick marks dividing the distance from 0 to 3 into thirds. Which fraction labels point  $T$ ?

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

C.  $\frac{4}{3}$

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

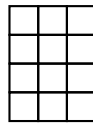
D.  $\frac{3}{2}$



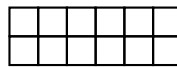
Scan me!  
For more practice  
& answers

- 1) Mia gives 3 friends 8 stickers each. How many stickers does she give in all?
- A. 11 stickers (adds  $3 + 8$ )       C. 21 stickers (off by one group:  $3 \times 7$ )  
 B. 17 stickers (counts partial:  $8+8+1$ )       D. 24 stickers
- 2) A number line from 0 to 1 shows a unit fraction of  $\frac{1}{4}$ . How many of these unit fractions fit from 0 to 1?
- A. 1       C. 3  
 B. 2       D. 4
- 3) A rectangular field is 9 meters long and 5 meters wide. How many square meters is the field?
- A. 14 square meters       C. 40 square meters  
 B. 45 square meters       D. 28 square meters
- 4) Sam has 6 boxes of crayons. Each box has 10 crayons. How many crayons does Sam have in total?

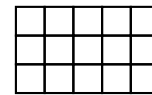
- 5) Three rectangles are shown. Which two rectangles have the same area? (Hint: Count the unit squares in your head or on paper.)



Rectangle 1



Rectangle 2



Rectangle 3

- A. Rectangles 1 and 2       C. Rectangles 2 and 3  
 B. Rectangles 1 and 3       D. All three have different areas



Scan me!  
For more practice  
& answers



## 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

- 1) **Choice A is correct.** **(3.GM.C.9)** Y is  $2 \times 3 = 6$  unit squares. Z is  $3 \times 2 = 6$  unit squares. Both have the same area of 6 square units.
- 2) **Choice A is correct.** **(3.RA.A.4)** Multiply: 7 rows  $\times$  3 plants per row = 21 plants.
- 3) **Choice C is correct.** **(3.RA.E.11)**  $5 \times 5 = 25$ . This is sometimes called a “perfect square”.
- 4) **Choice C is correct.** **(3.RA.C.7)**  $9 \times 4 = 36$ . You can think of 4 nines or 9 fours:  $9 + 9 + 9 + 9 = 36$ .
- 5) **Choice D is correct.** **(3.NF.A.1)** Each step is one eighth. Five steps from 0 land at  $\frac{5}{8}$ .
- 6) **Choice D is correct.** **(3.GM.C.11)** This equation uses subtraction instead of addition. The correct form is  $6 \times (5 + 2) = 6 \times 5 + 6 \times 2$ .
- 7) **Choice A is correct.** **(3.NF.A.4)**  $\frac{1}{4}$  and  $\frac{2}{8}$  both show one-quarter of a whole.
- 8) **Choice C is correct.** **(3.GM.B.6)**  $4 : 07 + 18 \text{ min} = 4 : 25 \text{ PM}$ .
- 9) **Choice C is correct.** **(3.GM.C.9)** 3 columns and 4 rows:  $3 \times 4 = 12$  unit squares.
- 10) **Choice D is correct.** **(3.RA.A.1)** The array shows 2 columns and 5 rows of small squares. So  $2 \times 5 = 10$  or  $5 \times 2 = 10$ .
- 11) **Choice D is correct.** **(3.NF.A.3)**  $\frac{3}{4}$  of the distance from 0 to 4 means  $\frac{3}{4} \times 4 = 3$ . This lands at the 3 mark.
- 12) **Choice A is correct.** **(3.NBT.A.3)** Lily has 326. Her friend gives 147. Add:  $326 + 147 = 473$ . Ones:  $6 + 7 = 13$  (write 3, carry 1). Tens:  $2 + 4 + 1 = 7$ . Hundreds:  $3 + 1 = 4$ .
- 13) **The correct answer is  $\frac{3}{4}$ .** **(3.NF.A.3)** The third tick out of 4 equal parts is  $\frac{3}{4}$ .
- 14) **Choice B is correct.** **(3.NF.A.5)** Pie 2 shows  $\frac{1}{2}$  (half shaded) and Pie 3 shows  $\frac{4}{8}$  (half shaded). These are equivalent because  $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$ .
- 15) **Choices A, B, C, and D are correct.** **(3.GM.C.9)** A:  $3 \times 4 = 12$  unit squares. B:  $6 \times 2 = 12$  unit squares. C:  $2 \times 6 = 12$  unit squares. D:  $4 \times 3 = 12$  unit squares. E:  $5 \times 3 = 15$  unit squares. Items A, B, C, D all cover 12 square units.
- 16) **Choice C is correct.** **(3.GM.C.12)** Area = length  $\times$  width =  $12 \times 4 = 48$  square feet.
- 17) **Choice A is correct.** **(3.RA.A.5)** Multiply:  $6 \times 8 = 48$ , so the divisor is 8.
- 18) **Choice B is correct.** **(3.GM.A.3)** Four shaded parts out of six equal parts is  $\frac{4}{6}$ .
- 19) **Choice C is correct.** **(3.NBT.A.4)**  $6 \times 50 = 300$  is the greatest because  $300 > 280$ ,  $300 > 240$ , and  $300 > 180$ .
- 20) **Choice B is correct.** **(3.NF.A.4)**  $\frac{1}{4} = \frac{2}{8}$ . Both represent one-quarter of the bottle (see the shaded regions are equal).
- 21) **Choice D is correct.** **(3.RA.A.5)** Every multiplication fact has two related division facts. From  $6 \times 7 = 42$ , we get  $42 \div 6 = 7$ . The factors switch roles.
- 22) **Choice B is correct.** **(3.RA.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).
- 23) **Choice D is correct.** **(3.NF.A.2)**  $24 \div 6 = 4$ . Divide the total students by the number of teams.
- 24) **The correct answer is 24.** **(3.RA.B.6)**  $(2 \times 3) \times 4 = 6 \times 4 = 24$ .
- 25) **Choice D is correct.** **(3.NF.A.5)**  $\frac{2}{2} = 1$  whole. All parts of the rectangle are colored.
- 26) **The correct answer is 0 right angles.** **(3.GM.A.1)** A trapezoid can have no right angles.
- 27) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 5. Since  $5 \geq 5$ , round up: 756 rounds to 800.
- 28) **Choice B is correct.** **(3.RA.D.10)** 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.)
- 29) **Choice D is correct.** **(3.GM.B.8)** Multiply:  $6 \times 200 = 1200$  mL.
- 30) **Choice C is correct.** **(3.NF.A.1)** Dividing a whole into 4 equal sections creates unit fractions called fourths. One section is one-fourth.

### Practice Test 2 Answers and Explanations



Scan me!  
For more practice  
& answers

## Hi, Math Champion!

◇ You trained hard! 6 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!

★

### Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

**Coach's tip:** the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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 Coach

# 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](https://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