

9

Missouri MAP

GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY

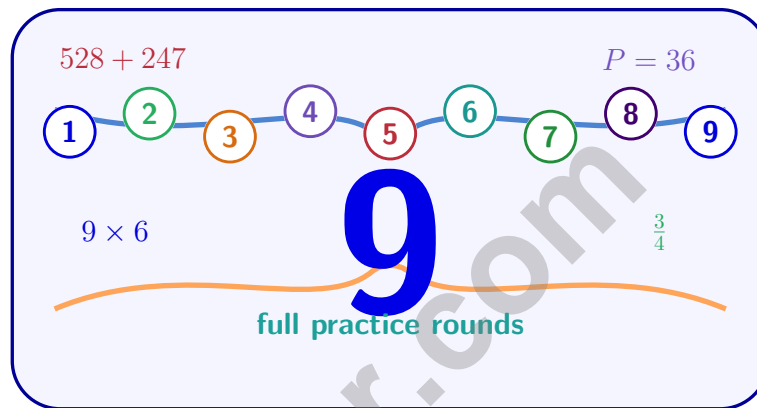


10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Missouri MAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with 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 ©

Missouri, Start Your Nine-Round Math Mission

A bright Grade 3 mission from first try to confident finish

This book gives you nine chances to practice like a thoughtful Missouri MAP test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Missouri has river arches, cave tours, farm roads, city neighborhoods, and strong school routines, where careful steps matter. Strong math follows that same idea: compare what the question asks, choose a useful tool, show the work, and measure before moving on.

Your Missouri Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Missouri review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Missouri, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with MAP support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Missouri standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	39
★ Practice Test 4	_____	52
★ Practice Test 5	_____	64
★ Practice Test 6	_____	77
★ Practice Test 7	_____	90
★ Practice Test 8	_____	104
★ Practice Test 9	_____	116
Practice Test Answer Keys	_____	128
Practice Test Answers and Explanations	_____	134

1) What number makes this true? $_ \times 20 = 160$

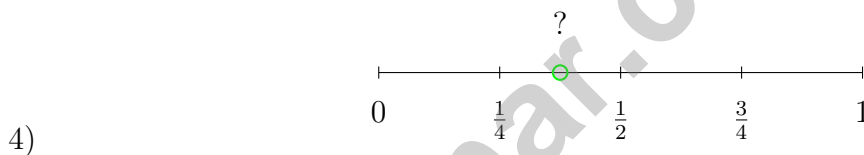
- A. 8 C. 80
 B. 16 D. 2

2) Mia tiles a rectangle that is 3 tiles wide and 6 tiles tall. Jordan tiles a rectangle that is 2 tiles wide and 9 tiles tall. Whose rectangle has a bigger area?

- A. Mia's rectangle C. They have the same area
 B. Jordan's rectangle D. Cannot tell from this information

3) What is 2×7 ? Using the repeated addition strategy, which shows this product?

- A. $7 + 7 + 7$ C. $2 + 7$
 B. 7×7 D. $7 + 7$



The green dot is halfway between $\frac{1}{4}$ and $\frac{1}{2}$. Which is true?

- A. The dot = $\frac{1}{4}$ C. $\frac{1}{4} < \text{the dot} < \frac{1}{2}$
 B. The dot $> \frac{1}{2}$ and $< \frac{3}{4}$ D. The dot = $\frac{1}{2}$

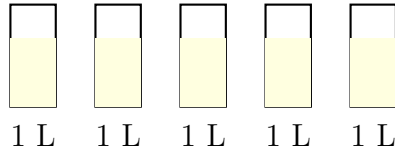
5) Look at these two numbers: 245 and 255. When rounded to the nearest 100, which one gets larger?

- A. Both round to the same value C. 255 becomes bigger (300)
 B. 245 becomes bigger (300) D. Cannot tell



Scan me!
For more practice
& answers

Five Bottles of Oil



6)

A grocery store receives a shipment of 5 bottles of olive oil. Each bottle holds 1 liter. How many liters of oil total?

 A. 1 L C. 5 L B. 3 L D. 500 mL

7) A classroom is shaped like a square with sides of 9 meters. What is the area of the classroom in square meters?

8) Look at the fact family table:

$7 \times 6 = 42$	$6 \times 7 = 42$
$42 \div 7 = 6$	$42 \div 6 = 7$

If one factor is 7 and the product is 42, what is the other factor?

$$7 \times \square = 42$$

 A. 8 C. 5 B. 7 D. 6

- 9) Ava skip-counts by thirds from 0 on a number line from 0 to 3 divided into thirds. She says: $0, \frac{1}{3}, \frac{2}{3}, 1, \frac{4}{3}, \dots$. At what point does she say $\frac{7}{3}$?
- A. At 1
- B. Between 2 and 3
- C. At 3
- D. Before $\frac{1}{3}$
- 10) A bakery puts 20 cupcakes into boxes of 5. How many boxes do they fill?
- A. 3
- B. 100
- C. 5
- D. 4
- 11) Sasha reads 9 pages of a book each day. After 5 days, how many pages has Sasha read?
- A. 40 pages
- B. 54 pages
- C. 14 pages
- D. 45 pages
- 12) A picture graph shows flowers. Each flower symbol means 3 flowers. If there are 2 symbols for red flowers and 4 symbols for yellow flowers, how many flowers are there in total?
- A. 6
- B. 12
- C. 18
- D. 24
- 13) What is the missing number? $28 \div \square = 7$
- A. 3
- B. 6
- C. 5
- D. 4



Scan me!
For more practice
& answers

1) A rectangle's length is 12 cm. Its width is 3 cm. What is the perimeter?

A. 15 cm

C. 30 cm

B. 36 cm

D. 72 cm

2) A student read $\frac{4}{1}$ books. How many whole books?

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

C. 1

B. 4

D. 8

3) A rectangular rug has length 7 feet and width 6 feet. What is its area?

A. 42 sq ft

C. 13 sq ft

B. 26 sq ft

D. 49 sq ft

4) Sam pours juice equally into 5 glasses. He uses 2000 mL total. About how many milliliters are in each glass?

A. 200 mL

C. 600 mL

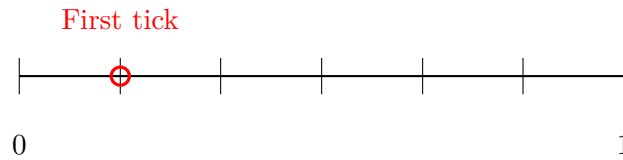
B. 400 mL

D. 1000 mL

5) Write a fraction equivalent to $\frac{1}{2}$.



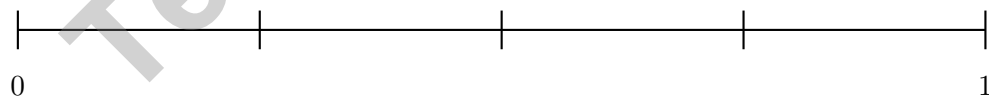
- 6) Look at this number line labeled from 0 to 1 with 6 equal parts. The mark at the first tick represents which fraction?



- A. $\frac{1}{6}$
 C. $\frac{2}{6}$
 B. $\frac{1}{7}$
 D. $\frac{1}{5}$
- 7) Complete: $\square \times 8 = 56$. Then write the related division fact.
- A. $\square = 7$ and $56 \div 8 = 7$
 C. $\square = 6$ and $56 \div 6 = 8$
 B. $\square = 8$ and $56 \div 7 = 8$
 D. $\square = 9$ and $56 \div 9 = 8$
- 8) Sam has 8 groups of 10 stickers. How many stickers does Sam have in total?

Tens	Ones
8	0

- A. 18
 C. 810
 B. 108
 D. 80
- 9) On a number line from 0 to 1 split into 4 equal parts, what fraction comes after $\frac{2}{4}$?



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

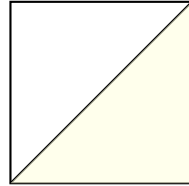


Scan me!
For more practice
& answers

1) Which expression means the same as 4×5 ?

- A. $4 + 5$
 C. 5 more than 4
 B. 4 more than 5
 D. 4 groups of 5

2) A square is divided into 2 equal parts by a diagonal line. What fraction is one part?



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

3) Which picture shows 10 items divided equally into 2 groups?

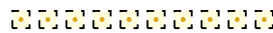
- A. Two groups of five



- B. Five groups of two



- C. Ten groups of one

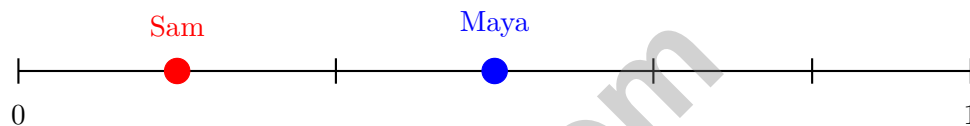


- D. Five groups of ten



- 4) If a number line from 0 to 3 is divided into thirds, how many thirds tall is the entire line?

- 5) On a number line from 0 to 1 with 6 equal parts, Sam marks the point at $\frac{1}{6}$. Maya marks the point at $\frac{3}{6}$. How many parts apart are their marks?



- A. 1 part
- B. 2 parts
- C. 3 parts
- D. 4 parts
- 6) What is 4×50 ?

- 7) Which pair of rectangles cannot be tiled to show a distributive property?

- A. 5×6 and 5×2
- B. 4×8 and 4×3
- C. 3×5 and 2×4
- D. 7×9 and 7×1



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



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(3.NBT.A.4)** Since $8 \times 20 = 160$, the missing number is 8. Check: $8 \times 2 = 16$, add a zero to get 160.
- 2) **Choice C is correct.** **(3.GM.C.11)** Mia: $3 \times 6 = 18$ square units. Jordan: $2 \times 9 = 18$ square units. Different dimensions, same area—shows that tiling result depends on both dimensions, not just one.
- 3) **Choice D is correct.** **(3.RA.C.7)** 2×7 means 2 groups of 7, which is $7 + 7 = 14$.
- 4) **Choice C is correct.** **(3.NF.A.7)** The green dot is halfway between $\frac{1}{4}$ and $\frac{1}{2}$, so it is at $\frac{3}{8}$. This means $\frac{1}{4} < \frac{3}{8} < \frac{1}{2}$.
- 5) **Choice C is correct.** **(3.NBT.A.1)** For 245: tens digit is $4 < 5$, rounds to 200. For 255: tens digit is $5 \geq 5$, rounds to 300. So 255 becomes the larger rounded number ($300 > 200$).
- 6) **Choice C is correct.** **(3.GM.B.8)** Multiply: $5 \times 1 = 5$ L.
- 7) **The correct answer is 81 square meters.** **(3.GM.C.9)** For a square, multiply side by side: $9 \times 9 = 81$ square meters.
- 8) **Choice D is correct.** **(3.RA.A.5)** From the fact family, $7 \times 6 = 42$.
- 9) **Choice B is correct.** **(3.NF.A.3)** $\frac{7}{3} = 2\frac{1}{3} \approx 2.33$. This is between 2 and 3, closer to 2.
- 10) **Choice D is correct.** **(3.NF.A.2)** Measurement division: $20 \div 5 = 4$. There are 4 groups of 5 in 20.
- 11) **Choice D is correct.** **(3.RA.A.1)** 5 days with 9 pages each day means 5 groups of 9. So $5 \times 9 = 45$ pages.
- 12) **Choice C is correct.** **(3.DS.A.2)** Red: $2 \times 3 = 6$. Yellow: $4 \times 3 = 12$. Total: $6 + 12 = 18$.
- 13) **Choice D is correct.** **(3.RA.A.5)** If $28 \div \square = 7$, then $7 \times \square = 28$. Since $7 \times 4 = 28$, the missing number is 4.
- 14) **Choice D is correct.** **(3.GM.C.9)** $3 \times 10 = 30$ unit square tiles.
- 15) **Choices A and C are correct.** **(3.GM.A.3)** A is correct because it divides into non-overlapping rectangles and adds. C is correct (any horizontal or vertical decomposition works). B is wrong (multiply areas, not add individual dimensions). D is also valid but only A and C are listed as choices. E is wrong (must find actual areas, not just look at the longest side).
- 16) **Choice B is correct.** **(3.NF.A.4)** $\frac{2}{4}$ and $\frac{3}{6}$ mark the same point and are equivalent.
- 17) **Choice D is correct.** **(3.GM.A.1)** The word “quadrilateral” means “four sides.” All quadrilaterals, whether squares, rectangles, or trapezoids, have exactly 4 sides.
- 18) **Choice B is correct.** **(3.GM.A.3)** Two columns out of three equal columns is $\frac{2}{3}$.
- 19) **Choice D is correct.** **(3.RA.E.11)** From 6 to 12 is +6; from 12 to 18 is +6; from 18 to 24 is +6.
- 20) **Choice C is correct.** **(3.NF.A.4)** $\frac{2}{3} = \frac{4}{6}$ because they both represent two-thirds of the distance from 0 to 1.
- 21) **Choice B is correct.** **(3.NF.A.3)** $\frac{2}{6}$ is between $\frac{1}{6}$ (tick 1) and $\frac{3}{6}$ (tick 3). It's the middle tick.
- 22) **Choice D is correct.** **(3.NF.A.5)** 6 thirds equals 2 wholes. Each whole has 3 thirds, so $6 \div 3 = 2$ wholes.
- 23) **Choice D is correct.** **(3.GM.B.6)** $7 : 33 + 3$ hours = $10 : 33$. Then $10 : 33 + 17$ min = $10 : 50$ AM.
- 24) **The correct answer is $\frac{1}{4}$.** **(3.NF.A.1)** One piece out of 4 equal pieces is $\frac{1}{4}$.
- 25) **Choice A is correct.** **(3.NF.A.1)** Three equal parts means each is $\frac{1}{3}$.
- 26) **Choice B is correct.** **(3.GM.C.9)** 8 rows \times 6 tiles per row = 48 square inches.
- 27) **Choice A is correct.** **(3.RA.C.7)** Area = $8 \times 1 = 8$ square yards.
- 28) **Choice A is correct.** **(3.GM.C.12)** Since area = length \times height, we have $18 = \text{length} \times 3$. Therefore, length = $18 \div 3 = 6$ meters. Choice B (15) subtracts from area; C (21) adds; D (9) is half of area.
- 29) **The correct answer is $\frac{2}{6}$.** **(3.NF.A.5)** Multiply the numerator and denominator by 2: $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$.
- 30) **Choice B is correct.** **(3.RA.D.10)** Step 1: Multiply: $2 \times 4 = 8$ tomato plants. Step 2: Add: $8 + 3 = 11$ plants. (Choice A is step 1 only.)

Practice Test 2 Answers and Explanations



A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 9 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 9 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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

Jay Daie

Your Math Friend

STRONG TODAY. SUCCESS TOMORROW.

Give your child the tools they need to excel in **Grade 3 Math!** This book includes **9 complete practice tests** that follow grade-level standards and help students build confidence, sharpen skills, and achieve success.

9
COMPLETE PRACTICE TESTS

- ✓ Aligned to Grade 3 Standards
- ✓ Engaging, Varied, and Effective

More practice today for a **stronger** tomorrow.



THIS BOOK HELPS YOUR CHILD:



Build Confidence

Familiar, focused practice reduces anxiety and builds self-belief.



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



Track Progress

Identify strengths and target areas with purposeful practice.



Achieve Success

Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

- ✓ 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/math3 for more Grade 3 math resources and practice materials!



Aligned to Standards



Created by Educators