

3

Missouri MAP

GRADE 4

MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**5 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
QUESTIONS**



**ANSWER KEY
INCLUDED**

$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



3 Missouri MAP Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, Missouri MAP strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome, Missouri Math Explorer!

Three steady rounds on the Show-Me State math route

This book gives you three full Grade 3 practice tests for MAP. Each round uses gateway arches, river crossings, and strong strategy choices to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Missouri Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Missouri MAP review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Show-Me State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Three tests, 90 questions, and a full MAP review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

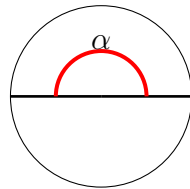


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For more practice
& answers

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	26
★ Practice Test 3	_____	38
Practice Test Answer Keys	_____	49
Practice Test Answers and Explanations	_____	52

- 1) A gardener has 256 grams of seeds to divide equally into 8 packets. How many grams of seeds are in each packet?
- A. 32 g C. 64 g
 B. 48 g D. 128 g
- 2) What is $1,428 \div 6$?
- A. 238 C. 248
 B. 242 D. 244
- 3) Complete the sequence: 2, 5, 10, 17, __
- A. 24 C. 28
 B. 30 D. 26
- 4) A reading challenge requires finishing $\frac{9}{12}$ of a book this week and $\frac{2}{12}$ next week. After both weeks, how much of the book is left?
- A. $\frac{1}{12}$ C. $\frac{7}{12}$
 B. $\frac{11}{12}$ D. $\frac{12}{12}$



5)

The angle α shown above represents what fraction of a full turn?

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



6) Which diagram shows a straight angle?



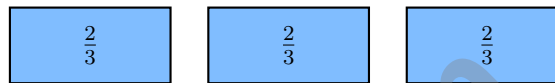
A. Diagram A

B. Diagram B

C. Diagram C

D. Diagram D

7) A model shows 3 tiles, each equal to $\frac{2}{3}$. What is the total?



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

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

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

D. $\frac{2}{9}$

8) Which problem has an answer of $4\frac{1}{2}$?

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

B. $5\frac{1}{2} - 2\frac{1}{2}$

C. $3\frac{1}{2} + 1\frac{1}{2}$

D. $6 - 2\frac{1}{2}$

9) A window shade is opened by rotating it 104° clockwise. Then it is rotated an additional 76° clockwise. What is the total clockwise rotation?

A. 28°

B. 180°

C. 104°

D. 90°

10) Is 25 prime or composite?

A. Prime

B. Both

C. Neither

D. Composite



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11) In 0.84, what is the value of the digit 8 as a decimal?

12) A hiking trail is 8 kilometers long. Convert this distance to meters.

13) Ava has 8,234 stickers. She gives 2,456 stickers to her friend. How many stickers does Ava have left?

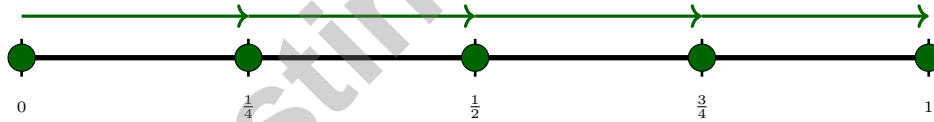
A. 5,778

C. 6,778

B. 5,678

D. 6,678

14)



The number line shows 4 equal jumps of $\frac{1}{4}$. What multiplication is shown?

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

C. $4 \times 1 = 4$

B. $4 \times \frac{1}{4} = \frac{1}{4}$

D. $\frac{4}{4} = 4$



1) What is $\frac{7}{10} - \frac{3}{10}$?

A. $\frac{4}{20}$

B. $\frac{4}{10}$

C. $\frac{10}{10}$

D. $\frac{3}{10}$

2) What is the missing addend: $2\frac{3}{5} + ? = 5\frac{2}{5}$

A. $3\frac{1}{5}$

B. $2\frac{3}{5}$

C. 3

D. $2\frac{4}{5}$

3) If you move the digit 4 from the tens place to the thousands place, how many times greater does its value become?

A. 10 times

B. 2 times

C. 1,000 times

D. 100 times

4) How many rays form an angle?



5) How many centimeters are in 3 meters?

A. 30

B. 300

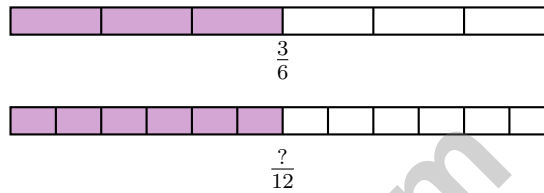
C. 3,000

D. 30,000



6) Find $3 \times \frac{5}{6}$ as a mixed number.

7) Look at the two fraction bars. Both are the same length.



What number replaces the question mark?

- A. 4 C. 6
 B. 5 D. 8

8) When measuring an angle, one ray is aligned with what degree mark?

9) Which set of unit fractions adds up to $\frac{5}{6}$?

- A. Five $\frac{1}{6}$'s C. Five $\frac{1}{12}$'s
 B. Six $\frac{1}{5}$'s D. Two $\frac{1}{6}$'s



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1) How many times as many counters are in Group B as in Group A?



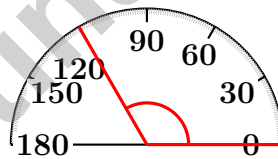
- A. 2 times as many
- B. 8 times as many
- C. 6 times as many
- D. 4 times as many

2) Use the place-value chart to find the decimal.

Tenths	Hundredths
9	2

- A. 0.92
- B. 9.2
- C. 0.029
- D. 92.0

3)



A student measures an angle with a protractor. The angle opens to the 120-degree mark. What type of angle is this?

- A. Acute angle
- B. Right angle
- C. Obtuse angle
- D. Straight angle

Practice Test Answer Keys

How to use this section with a Grade 4 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 A is correct.** (4.GM.C.7) There are 256 grams of seeds for 8 packets. Divide equally: $256 \div 8 = 32$ grams. Each packet has **32** grams of seeds.
- Choice A is correct.** (4.NBT.A.7) Long division: $1 \div 6 = 0$ r1, bring down the 4 to get $14 \div 6 = 2$ r2, bring down the 2 to get $22 \div 6 = 3$ r4, bring down the 8 to get $48 \div 6 = 8$. The answer is **238**.
- Choice D is correct.** (4.RA.B.4) Look at the differences: 3, 5, 7. The differences increase by 2 each time, so the next difference is 9: $17 + 9 = 26$.
- Choice A is correct.** (4.NF.B.5) The reading challenge spans two weeks. Step 1: Add what's read both weeks: $\frac{9}{12} + \frac{2}{12} = \frac{11}{12}$. Step 2: Find what's left: $\frac{12}{12} - \frac{11}{12} = \frac{1}{12}$.
- Choice C is correct.** (4.GM.A.2) The shaded arc stretches across a straight line (from one side of the circle to the other), which is $\frac{1}{2}$ of a full turn or 180° .
- Choice D is correct.** (4.GM.A.1) A straight angle is perfectly flat at 180° — like a line with two rays pointing opposite ways. Diagram D shows this flat, perfectly straight configuration.
- Choice C is correct.** (4.NF.B.7) Three tiles of $\frac{2}{3}$ each: $3 \times \frac{2}{3} = \frac{6}{3}$.
- Choice A is correct.** (4.NF.B.5) Check choice A: $2\frac{1}{2} + 2 = 4\frac{1}{2}$. Correct! Add wholes: $2 + 2 = 4$, and keep the fraction: $\frac{1}{2}$. The others give different answers: B equals 3, C equals 5, D equals $3\frac{1}{2}$.
- Choice B is correct.** (4.NF.B.4) The window shade rotates twice. Add both rotations: $104^\circ + 76^\circ = 180^\circ$.
- Choice D is correct.** (4.RA.B.4) Look for any factor besides 1 and itself. $25 = 5 \times 5$, so 5 is a factor too. That gives factors 1, 5, 25—more than two—so 25 is **composite**.
- The correct answer is 0.8.** (4.NF.C.9) The first place after the decimal point is the tenths place. The digit 8 sits in the tenths place, which means 8 groups of 0.1. So its value is $8 \times 0.1 = 0.8$ (eight tenths). ✓
- The correct answer is 8,000.** (4.GM.C.6) Since 1 kilometer = 1,000 meters, multiply: $8 \times 1,000 = 8,000$ m.
- Choice A is correct.** (4.NBT.A.2) This word problem asks us to find how many are left, so we subtract. $8,234 - 2,456 = 5,778$ stickers.
- Choice A is correct.** (4.NF.B.7) The number line shows 4 equal jumps of $\frac{1}{4}$ each, landing at 1. This shows the multiplication $4 \times \frac{1}{4} = 1$.
- Choice C is correct.** (4.DS.A.2) First, count all X marks: $2 + 3 + 4 = 9$. Remove the 4 marks at $\frac{6}{8}$ inch: $9 - 4 = 5$ marks remain.
- Choice B is correct.** (4.NF.B.5) Noah started with $\frac{6}{12}$ and ate $\frac{2}{12}$. Same-size pieces: $6 - 2 = 4$ twelfths remain. Answer: $\frac{4}{12}$.
- Choice D is correct.** (4.RA.A.2) Watch out for extra information! The prices are not needed—just count items. Step 1: total items: $120 + 80 = 200$. Step 2: divide equally: $200 \div 10 = 20$ items per classroom.
- The correct answer is A, C.** (4.GM.A.2) Statement A is correct: 50° contains **50** one-degree angles. Statement C is correct: a right angle measures 90° and contains **90** one-degree angles. Statement B is wrong (double-counting). Statement D is wrong (straight angle is 180° , not 90°). Statement E is wrong (full circle is 360° , not 180°).
- The correct answer is 1,000.** (4.NBT.A.4) Step 1: name the place values. The thousands 8 is worth $8 \times 1,000 = 8,000$; the ones 8 is worth $8 \times 1 = 8$. Step 2: divide to compare: $8,000 \div 8 = 1,000$. So the thousands 8 is 1,000 times the ones 8. ✓
- Choice B is correct.** (4.GM.B.5) The ray points to the 15° mark. Since 15° is very close to 0° and less than 90° , this is a small acute angle. The answer is **15** degrees.
- Choice A is correct.** (4.NF.B.5) The red arrow shows the first jump ($\frac{4}{12}$), the blue arrow shows the second jump ($\frac{3}{12}$). Together: $4 + 3 = 7$, so we reach $\frac{7}{12}$. ✓
- Choice B is correct.** (4.GM.A.2) This angle is acute because it has a small opening, smaller than a right angle (90 degrees).
- Choice D is correct.** (4.NF.B.7) Marcus buys 4 containers, each with $\frac{2}{5}$ pound. Multiply: $4 \times \frac{2}{5} = \frac{4 \times 2}{5} = \frac{8}{5} = 1\frac{3}{5}$ pounds. The answer is **$1\frac{3}{5}$** pounds.



Hi, Math Inventor!

◇ 3 practice tests. 3 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ CONFIDENCE TODAY.
SUCCESS TOMORROW!

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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3 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED REVIEW



MIXED PRACTICE QUESTIONS



ANSWER KEY INCLUDED