

# 9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

# Missouri MAP

## GRADE 4

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**9 FULL-LENGTH  
PRACTICE TESTS**



**STANDARDS-ALIGNED  
REVIEW**



**MIXED PRACTICE  
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY  
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE  
**PRACTICE**  
SUCCEED  
PERFORM

**PRACTICE TODAY.  
SUCCEED TOMORROW.**

# 9 Missouri MAP Grade 4 Math Practice Tests

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



Nine complete 30-question Grade 4 practice rounds for MAP, built around gateway arches, river crossings, and strong strategy choices, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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# Welcome, Missouri Math Explorer!

Nine steady rounds on the Show-Me State math route

This book gives you nine full Grade 4 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?

Nine tests, 270 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 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

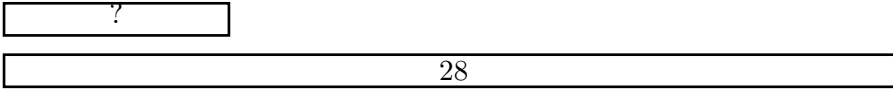
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



Scan me!  
For more practice  
& answers

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- 1) 4 times 

A school has 28 basketballs. The number of basketballs is 4 times the number of soccer balls. How many soccer balls does the school have?

- 2) Which fraction is equivalent to  $\frac{2}{3}$ ?

A.  $\frac{3}{4}$   
 B.  $\frac{3}{2}$

C.  $\frac{6}{8}$   
 D.  $\frac{4}{6}$

- 3) What is the vertex of an angle?

A. One of the rays forming the angle  
 B. The point where the two rays meet  
 C. The space between the two rays  
 D. The endpoint of a line segment

- 4) Each day, a plant needs  $\frac{1}{2}$  cup of water. How much water does it need over 9 days?

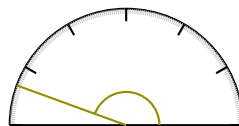
A.  $\frac{1}{18}$  cup

C.  $\frac{9}{18}$  cup

B.  $\frac{9}{2}$  cups (or  $4\frac{1}{2}$  cups)

D. 9 cups

- 5)



What is the measure of the angle shown?

A. 150 degrees

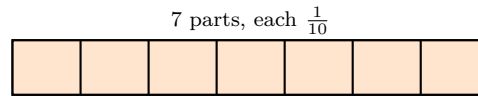
C. 170 degrees

B. 140 degrees

D. 160 degrees



6) In a fraction bar, 7 equal parts are shaded. If each part is  $\frac{1}{10}$ , what fraction is shaded?

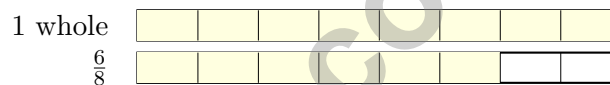


- A.  $\frac{1}{10}$ 
 C.  $\frac{7}{10}$   
 B.  $\frac{3}{10}$ 
 D.  $\frac{10}{7}$

7) How many rays make up an angle?

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

8) A board is  $\frac{14}{8}$  inches long. Decompose this as a mixed number:



- A.  $1\frac{6}{8} = \frac{8}{8} + \frac{6}{8}$ 
 C.  $1\frac{3}{8} = \frac{8}{8} + \frac{3}{8}$   
 B.  $2\frac{1}{8} = \frac{16}{8} + \frac{1}{8}$ 
 D.  $1\frac{5}{8}$  inches

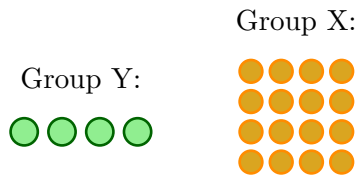
9) What is  $3 \times 456$ ?

- A. 1450
  C. 1512  
 B. 1600
  D. 1368



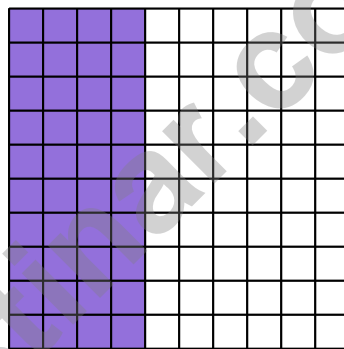
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10) Look at the two groups. How many times as many objects are in Group X as in Group Y?



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

11) Approximately what decimal is represented by the shaded portion?



- A. 0.40                       C. 0.44  
 B. 0.04                       D. 0.60

12) A store has 200 books. They receive 35 more books. Then they sell 78 books. How many books do they have left?

1) Mia made 3 sandwiches. Each sandwich uses  $\frac{1}{4}$  of a loaf of bread. How much bread did she use altogether?

- A.  $\frac{1}{12}$  loaf                       C.  $\frac{4}{3}$  loaf  
 B.  $\frac{3}{1}$  loaf                          D.  $\frac{3}{4}$  loaf

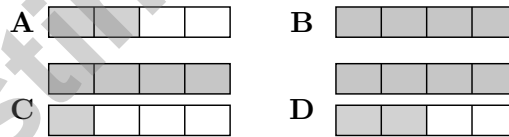
2) Look at the place-value table below.

Tenths	Hundredths	Decimal
6	0	0.60
6	2	?

What decimal has 6 tenths and 2 hundredths?

- A. 0.26                                 C. 0.206  
 B. 0.62                                 D. 6.02

3) Which model shows 6 unit fractions of  $\frac{1}{4}$  that equal  $\frac{6}{4}$ ?



- A. Picture A                             C. Picture C  
 B. Picture B                             D. Picture D

4) Convert  $4\frac{2}{3}$  to an improper fraction.

- A.  $\frac{14}{3}$                                      C.  $\frac{10}{3}$   
 B.  $\frac{12}{3}$                                      D.  $\frac{15}{3}$



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5) What are all the factors of 12?

A. 1, 3, 5, 7, 12

B. 1, 2, 4, 6, 12

C. 2, 3, 4, 6, 12

D. 1, 2, 3, 4, 6, 12

6) Which statement is false?

A.  $\frac{50}{100} = 0.50$

B.  $\frac{9}{10} = 0.9$

C.  $\frac{100}{100} = 10.0$

D.  $\frac{4}{10} = 0.4$

7) Ava had  $\frac{7}{8}$  of a chocolate bar. She gave  $\frac{2}{8}$  to her friend. How much does she have left?

A.  $\frac{5}{8}$

B.  $\frac{9}{8}$

C.  $\frac{5}{16}$

D.  $\frac{1}{8}$

8) A clothing store received 2,736 buttons in a shipment. They sew an equal number of buttons on 6 different shirts. How many buttons go on each shirt?

A. 454

B. 444

C. 456

D. 434

9) A ribbon is  $4\frac{3}{6}$  feet long. If  $2\frac{2}{6}$  feet are cut off, how long is the remaining ribbon?

10) A race is 8,800 yards long. How many miles is this?

A. 2

B. 3

C. 4

D. 5



1) A line plot shows four ribbon lengths:  $\frac{1}{8}$  inch,  $\frac{3}{8}$  inch,  $\frac{3}{8}$  inch, and  $\frac{5}{8}$  inch. What is the sum of these measurements?

A.  $\frac{10}{8}$  inch

C.  $\frac{14}{8}$  inch

B.  $\frac{12}{8}$  inch

D.  $\frac{16}{8}$  inch

2) A rectangle has an area of 72 square inches. The length is 9 inches. What is the width?



3) What angle does the minute hand sweep in 30 minutes?

A.  $90^\circ$

C.  $180^\circ$

B.  $120^\circ$

D.  $270^\circ$

4) Which numeral represents “four hundred twenty-three thousand, fifty-one”?

A. 423,501

C. 42,351

B. 423,510

D. 423,051

5) During a relay race, the first runner completes  $\frac{8}{10}$  of a track. The second runner completes  $\frac{2}{10}$  of the track. Together, did they complete the entire track ( $\frac{10}{10}$ )?

A. Yes, exactly  $\frac{10}{10}$

C. Yes, they completed  $\frac{10}{20}$

B. No, they completed  $\frac{6}{10}$

D. No, they completed  $\frac{10}{8}$



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6) Mia measures a piece of string as 8 decimeters long. How many centimeters is this?

- A. 0.8                       C. 80  
 B. 8                             D. 800

7) Lena has two ribbons. One is  $3\frac{1}{3}$  meters long and the other is  $1\frac{2}{3}$  meters long. If she ties them together, how long is the combined ribbon?

- A.  $4\frac{1}{3}$  meters                       C. 5 meters  
 B.  $4\frac{2}{3}$  meters                       D.  $5\frac{1}{3}$  meters

8) Add:  $\frac{2}{10} + \frac{35}{100}$ . Express your answer as a fraction with denominator 100.

9) Liam collected 40 pennies. Liam collected 5 times as many pennies as his friend. How many pennies did his friend collect?

- A. 45                               C. 35  
 B. 20                               D. 8

10) Complete the factor pair table for 20:

First Factor	Second Factor
1	20
2	?

What goes in the ?

- A. 8                               C. 12  
 B. 15                             D. 10



## 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

- 1) **The correct answer is 7.** (4.RA.A.1) The school's 28 basketballs are 4 times the soccer balls. To find the smaller amount, divide:  $28 \div 4 = 7$  soccer balls.
- 2) **Choice D is correct.** (4.NF.A.1) To find an equivalent fraction, multiply both the numerator and denominator by the same number. Here, multiply by 2:  $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$ . Both pieces are twice as many, but they're the same size!
- 3) **Choice B is correct.** (4.GM.A.1) The vertex is simply the corner point where the two rays come together to form the angle — it's like the tip of a pencil or the corner of a piece of paper.
- 4) **Choice B is correct.** (4.NF.B.7) A plant needs  $\frac{1}{2}$  cup of water each day. Over 9 days, it needs  $9 \times \frac{1}{2} = \frac{9}{2}$  cups.
- 5) **Choice D is correct.** (4.GM.B.5) The ray points to the  $160^\circ$  mark, which is very close to the  $180^\circ$  straight angle. At  $160^\circ$ , this is a wide obtuse angle. The answer is **160** degrees.
- 6) **Choice C is correct.** (4.NF.B.7) Seven shaded parts, each  $\frac{1}{10}$ :  $7 \times \frac{1}{10} = \frac{7}{10}$ .
- 7) **Choice B is correct.** (4.GM.A.2) An angle always has exactly **2** rays that start at a common endpoint.
- 8) **Choice A is correct.** (4.NF.B.5) The board is  $\frac{14}{8}$  inches. One whole is  $\frac{8}{8}$ , leaving  $14 - 8 = 6$  eighths more. So  $1\frac{6}{8} = \frac{8}{8} + \frac{6}{8} \checkmark$ .
- 9) **Choice D is correct.** (4.NBT.A.6) Use partial products:  $3 \times (400 + 50 + 6) = 1200 + 150 + 18 = \mathbf{1368}$ .
- 10) **Choice D is correct.** (4.RA.A.1) Divide the larger group by the smaller:  $16 \div 4 = 4$ . So Group X has **4** times as many objects as Group Y.
- 11) **Choice A is correct.** (4.NF.C.9) Roughly four columns (out of 10) are shaded. That's about 40 out of 100 squares:  $\frac{40}{100} = 0.40 = 0.4$ .
- 12) **The correct answer is 157.** (4.RA.A.2) Two steps! Step 1: add the new books:  $200 + 35 = 235$ . Step 2: take away the books sold:  $235 - 78 = \mathbf{157}$  books left.
- 13) **Choice C is correct.** (4.GM.A.2) Tick marks on the sides of a figure indicate which sides have equal length. Sides marked with the same number or style of tick marks are equal to each other. The answer is **C**.
- 14) **Choice A is correct.** (4.NBT.A.2) Looking at the table, the hundreds column shows 4 for Option A, which gives 2,415  $\checkmark$
- 15) **Choice D is correct.** (4.NBT.A.1) We're rounding to the nearest ten. Look at the ones digit: 7. Since  $7 \geq 5$ , we round UP! The tens digit goes from 0 to 1, giving us **4,610**.  $\checkmark$
- 16) **Choice B is correct.** (4.NF.B.5) Add numerators:  $1 + 3 = 4$ . We get  $\frac{4}{4}$ , which is one whole. When the top and bottom match, it equals 1.
- 17) **Choice A is correct.** (4.NF.B.5) A child and his sister share cookies. Add the amounts:  $1\frac{3}{4} + \frac{2}{4} = 2\frac{1}{4}$  cookies total they ate together.
- 18) **The correct answer is A, E.** (4.NF.B.7) A:  $3 \times \frac{1}{4} = \frac{3}{4} \checkmark$ . B:  $4 \times \frac{1}{3}$  should give  $\frac{4}{3}$ , not  $\frac{4}{12}$ . C:  $5 \times \frac{1}{5}$  equals 1, not  $\frac{5}{10}$ . D:  $2 \times \frac{1}{10}$  gives  $\frac{2}{10}$ , not  $\frac{2}{20}$ . E:  $7 \times \frac{1}{9} = \frac{7}{9} \checkmark$ .
- 19) **Choice C is correct.** (4.GM.C.7) The cafeteria used 6 gallons on Monday and 8 gallons on Tuesday. Add them:  $6 + 8 = 14$  gallons. They used **14** gallons in total.
- 20) **Choice A is correct.** (4.DS.A.2) Count the weights:  $\frac{4}{8}$  lb appears 3 times (the most!),  $\frac{5}{8}$  lb once, and  $\frac{6}{8}$  lb once. So  $\frac{4}{8}$  lb has the most X marks.
- 21) **Choice A is correct.** (4.NF.B.5) Subtract the wholes:  $6 - 3 = 3$ . Subtract the fractions:  $\frac{4}{8} - \frac{2}{8} = \frac{2}{8}$ . The difference is  $\mathbf{3\frac{2}{8}}$ .
- 22) **Choice C is correct.** (4.GM.A.2) A three-quarter turn is  $\frac{3}{4}$  of the full circle:  $\frac{3}{4} \times 360^\circ = \mathbf{270^\circ}$ .
- 23) **Choice D is correct.** (4.NBT.A.4) Check each number: 1,945 has 9 in the hundreds place (worth 900). The other options have 9 in different places. Answer: **1,945**.  $\checkmark$
- 24) **Choice A is correct.** (4.NF.B.5) The recipe needs  $\frac{2}{3}$  cup of flour. This is 2 equal pieces, each  $\frac{1}{3}$  cup. So  $\frac{2}{3} = \frac{1}{3} + \frac{1}{3}$ .
- 25) **Choice C is correct.** (4.GM.C.6) 1 kilogram = 1,000 grams. So  $6 \text{ kg} = 6 \times 1,000 = 6,000 \text{ g}$ .
- 26) **Choice C is correct.** (4.NF.A.1) Look at the bars:  $\frac{2}{5}$  is less than half (barely),  $\frac{3}{6}$  is exactly half. Only  $\frac{5}{8}$  clearly passes the halfway mark.



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& answers

Captain's Log

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## Ahoy, Math Sailor!

◇ You sailed through 9 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

### Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

**Captain's tip:** on test day, sail steady. Trust the map you built through 9 practice tests. You will reach safe harbor!

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 Captain

# PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

Whether used at home, in the classroom, or for independent review, this book provides meaningful practice that helps students grow stronger with every test.

## PERFECT FOR:

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

★ **CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.**

## 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.



### Track Progress

Measure growth across multiple practice tests.



### Academic Success

Strengthen skills needed for future learning.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ Mathematical Reasoning
- ✓ And More!



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Prepares Students for Future Success