

# 7

# Missouri

## MAP

## GRADE 4 MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$



7 Full-Length  
Practice Tests



Standards-  
Aligned



Build Confidence  
and Skills



Mixed Question  
Types

**ANSWER  
KEY**

**INCLUDED**

# 7 Missouri MAP Grade 4 Math Practice Tests

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



Seven 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!

Seven steady rounds on the Show-Me State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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

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1) A rectangle has a perimeter of 42 inches. The length is 12 inches. What is the width?

A. 6 in

C. 8 in

B. 9 in

D. 18 in

2) What is  $2 \times \frac{2}{5}$ ?

A.  $\frac{2}{10}$

C.  $\frac{2}{5}$

B.  $\frac{4}{5}$

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

3) A printer prints 250 pages per hour. How many pages does it print in 3 hours? Then 105 pages are removed. How many are left?

A. 750

C. 105

B. 855

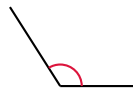
D. 645 pages

4) Which statement correctly compares these two angles?

Angle 1



Angle 2



A. Angle 1 is obtuse; Angle 2 is acute

C. Both angles are right angles

B. Angle 1 is acute; Angle 2 is obtuse

D. Both angles are the same size

5) Is 36 a multiple of 9?

A. Only if divisible by 4

C. Cannot tell

B. No

D. Yes



6) Which does NOT correctly decompose  $\frac{8}{10}$ ?

A.  $\frac{4}{10} + \frac{4}{10}$

C.  $\frac{2}{10} + \frac{5}{10}$

B.  $\frac{3}{10} + \frac{5}{10}$

D.  $\frac{1}{10} + \frac{7}{10}$

7) A full rotation is  $360^\circ$ . If part of the rotation is  $215^\circ$ , what angle remains to complete the full rotation?

A.  $145^\circ$

C.  $575^\circ$

B.  $215^\circ$

D.  $180^\circ$

8) Ming has 4 boxes of crayons. Each box has 18 crayons. How many crayons does Ming have?

A. 44

C. 64

B. 82

D. 72

9) Order from greatest to least:  $\frac{5}{6}$ ,  $\frac{5}{10}$ ,  $\frac{5}{8}$ .

A.  $\frac{5}{10}$ ,  $\frac{5}{8}$ ,  $\frac{5}{6}$

C.  $\frac{5}{8}$ ,  $\frac{5}{6}$ ,  $\frac{5}{10}$

B.  $\frac{5}{6}$ ,  $\frac{5}{8}$ ,  $\frac{5}{10}$

D.  $\frac{5}{10}$ ,  $\frac{5}{6}$ ,  $\frac{5}{8}$

10) An angle is divided into 27 one-degree angles. What is the measure of the angle?

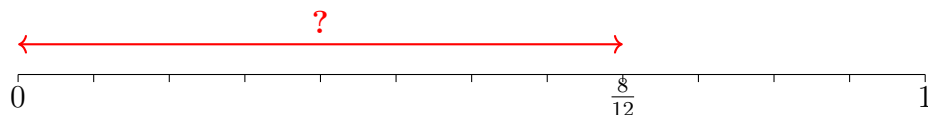
A.  $27^\circ$

C.  $54^\circ$

B.  $13.5^\circ$

D.  $270^\circ$

11) A number line shows equal hops of  $\frac{1}{12}$ . How many hops reach  $\frac{8}{12}$ ?



A. 4 hops

C. 8 hops

B. 6 hops

D. 12 hops



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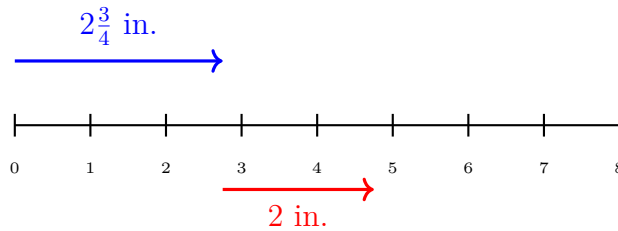
12) What number is  $100,000 + 20,000 + 3,000 + 0 + 50 + 0$ ?

A. 123,500

C. 123,050

B. 102,350

D. 120,350



13)

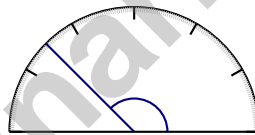
A board has two sections. The blue section is  $2\frac{3}{4}$  inches and the red section is 2 inches. What is the total length?

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

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

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

D. 5 inches



14)

What is the measure of the angle shown?

A. 90 degrees

C. 135 degrees

B. 120 degrees

D. 150 degrees



1) Is  $\frac{3}{5}$  greater than or less than  $\frac{1}{2}$ ?

A. Greater than  $\frac{1}{2}$

C. Equal to  $\frac{1}{2}$

B. Less than  $\frac{1}{2}$

D. Cannot determine

2) Look at the base-ten model below. What number does it represent?



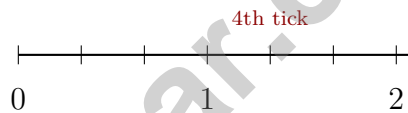
A. 6,142

C. 1,462

B. 4,612

D. 4,162

3) A number line is marked from 0 to 2, with tick marks every  $\frac{1}{3}$ . Which point is at the 4th tick after 0?



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

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

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

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

4) A straight angle of  $180^\circ$  is divided into five equal parts. What is the measure of each part?



1) Look at the base-ten model below. Which number does it represent?

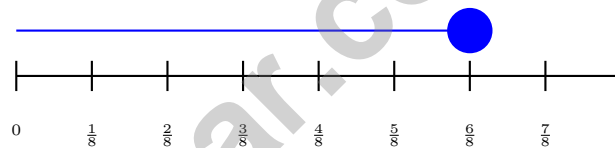


- A. 5,373                       C. 5,307  
 B. 3,570                       D. 5,037

2) How many degrees in  $\frac{2}{3}$  of a full turn around a circle?

- A.  $180^\circ$                        C.  $240^\circ$   
 B.  $200^\circ$                        D.  $270^\circ$

3) Here is a number line showing  $\frac{6}{8}$ :



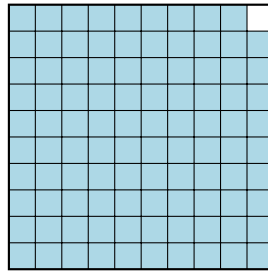
Which shows one correct way to decompose this into two equal jumps?

- A. Jump  $\frac{3}{8}$ , then jump  $\frac{3}{8}$                        C. Jump  $\frac{4}{8}$ , then jump  $\frac{3}{8}$   
 B. Jump  $\frac{2}{8}$ , then jump  $\frac{4}{8}$                        D. Jump  $\frac{1}{8}$ , then jump  $\frac{6}{8}$



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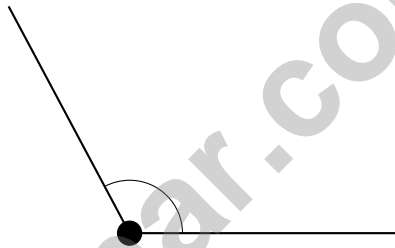
4) What decimal is shown by the shaded part of the hundredths grid?



99 out of 100 shaded

- A. 0.01
- C. 0.99
- B. 0.10
- D. 0.90

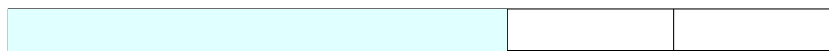
5)



This angle is bigger than a right angle. What is it called?

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

$\frac{6}{10}$  distance



?

6)

A runner has completed  $\frac{6}{10}$  of the race. How much of the race remains?

- A.  $\frac{6}{10}$
- C.  $\frac{10}{10}$
- B.  $\frac{4}{10}$
- D.  $\frac{2}{10}$

## 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

- Choice B is correct.** (4.GM.C.8) Using  $P = 2\ell + 2w = 42$  with  $\ell = 12$ :  $2(12) + 2w = 42$ . Simplify:  $24 + 2w = 42$ , so  $2w = 18$ , thus  $w = 9$  in.
- Choice B is correct.** (4.NF.B.7) Two groups of  $\frac{2}{5}$  each:  $2 \times \frac{2}{5} = \frac{2 \times 2}{5} = \frac{4}{5}$ .
- Choice D is correct.** (4.RA.A.2) Two steps! Step 1: find the total pages printed:  $250 \times 3 = 750$  pages. Step 2: take away the removed pages:  $750 - 105 = 645$  pages left.
- Choice B is correct.** (4.GM.A.1) Angle 1 is a small opening — less than  $90^\circ$  — so it's acute. Angle 2 opens much wider, more than  $90^\circ$ , making it obtuse.
- Choice D is correct.** (4.RA.B.4) To check, divide:  $36 \div 9 = 4$  exactly (no remainder). Since  $9 \times 4 = 36$ , yes—36 is a multiple of 9.
- Choice C is correct.** (4.NF.B.5) Option C:  $2 + 5 = 7$ , so  $\frac{2}{10} + \frac{5}{10} = \frac{7}{10}$ , not  $\frac{8}{10}$ . The answer is C ✓.
- Choice A is correct.** (4.NF.B.4) A full rotation is  $360^\circ$ . Subtract what you've turned:  $360^\circ - 215^\circ = 145^\circ$ .
- Choice D is correct.** (4.NBT.A.6) Break 18 into tens and ones:  $4 \times (10 + 8) = 40 + 32 = 72$  crayons.
- Choice B is correct.** (4.NF.A.1) All have numerator 5. Smaller denominators give bigger pieces. Order by denominator size:  $6 < 8 < 10$ , so  $\frac{5}{6} > \frac{5}{8} > \frac{5}{10}$ .
- Choice A is correct.** (4.GM.A.2) An angle made of 27 one-degree angles has a measure of  $27^\circ$ .
- Choice C is correct.** (4.NF.B.5) We want to reach  $\frac{8}{12}$  by hopping  $\frac{1}{12}$  each time. So 8 hops get us there:  $\frac{8}{12} = \underbrace{\frac{1}{12} + \frac{1}{12} + \dots + \frac{1}{12}}_{8 \text{ hops}}$ .
- Choice C is correct.** (4.NBT.A.2) Step 1:  $100,000 + 20,000 + 3,000 = 123,000$ . Step 2:  $123,000 + 50 = 123,050$  ✓
- Choice C is correct.** (4.NF.B.5) Add the wholes:  $2 + 2 = 4$ . Add the fractions:  $\frac{3}{4} + 0 = \frac{3}{4}$ . The total length is  $4\frac{3}{4}$  inches.
- Choice C is correct.** (4.GM.B.5) The second ray points directly to the  $135^\circ$  mark on the scale. Since  $135^\circ$  sits between the  $90^\circ$  and  $180^\circ$  benchmarks, it's obtuse. The answer is **135** degrees.
- Choice C is correct.** (4.GM.A.2) This angle is not a straight line, so it measures less than 180 degrees. It is much smaller than a straight angle.
- Choice A is correct.** (4.NF.C.9) The phrase “six tenths” appears in both the decimal form (0.6) and the fraction form ( $\frac{6}{10}$ ).
- Choice C is correct.** (4.GM.C.7) Sophia reads 15 minutes in the morning and 20 minutes in the evening. Add:  $15 + 20 = 35$  minutes. She reads **35** minutes each day.
- The correct answer is A, C.** (4.NF.B.7) A means “6 copies of  $\frac{1}{8}$ ”, which is  $\frac{6}{8}$ . C also means “6 copies of  $\frac{1}{8}$ ”, just written in words. Both are correct. B and D would give  $\frac{8}{8}$  (too many). E is subtraction.
- Choice C is correct.** (4.GM.A.3) A square balances 4 ways and a regular hexagon balances 6 ways. Since 4 and 6 are different, these shapes don't have the same number of lines of symmetry. The answer is They have different numbers of lines of symmetry.
- The correct answer is 6.** (4.DS.A.2) Add up all the X marks:  $1 + 2 + 3 = 6$  X marks in total.
- The correct answer is  $1\frac{1}{2}$ .** (4.NF.B.5) Subtract the mixed numbers:  $2\frac{3}{4} - 1\frac{1}{4} = 1\frac{2}{4}$ , which simplifies to  $1\frac{1}{2}$ .
- Choice A is correct.** (4.NF.C.9) Compare the tenths place:  $9 > 6$ , so  $0.96 > 0.69$ . Register A has more money.
- Choice B is correct.** (4.NF.C.9) Think of it as 3 tenths. We can write  $\frac{3}{10} = \frac{30}{100} = 0.30 = 0.3$ .
- The correct answer is 3.** (4.RA.A.1) We know the larger amount (12 blue shirts) and the comparison (4 times). To find the smaller amount, divide:  $12 \div 4 = 3$  red shirts.
- Choice C is correct.** (4.NBT.A.4) “7 hundreds” means  $7 \times 100 = 700$ . The full number 6,731 confirms this. ✓
- Choice C is correct.** (4.GM.C.6) Since 1 centimeter = 10 millimeters, multiply:  $15 \times 10 = 150$  mm. The answer is **150** mm.



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## Hi, Math Athlete!

◇ 7 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

### Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

**Trainer tip:** on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

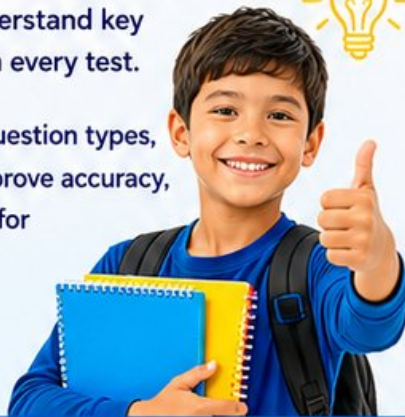
**Jay Daie**

Your Math Trainer

# 7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



## PERFECT FOR:

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

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

## TOPICS COVERED

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



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Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



7 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included