

4

Missouri MAP



GRADE 4

MATH

PRACTICE TESTS


 5 FULL-LENGTH PRACTICE TESTS

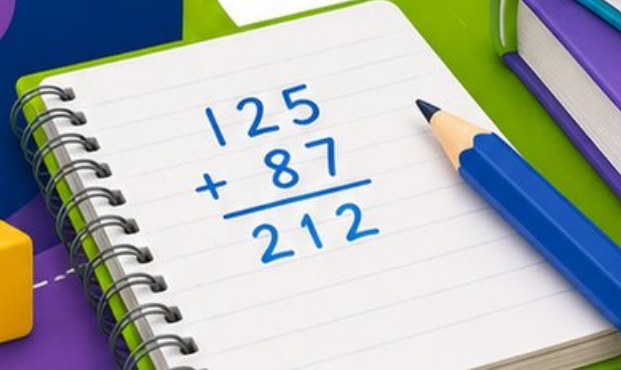
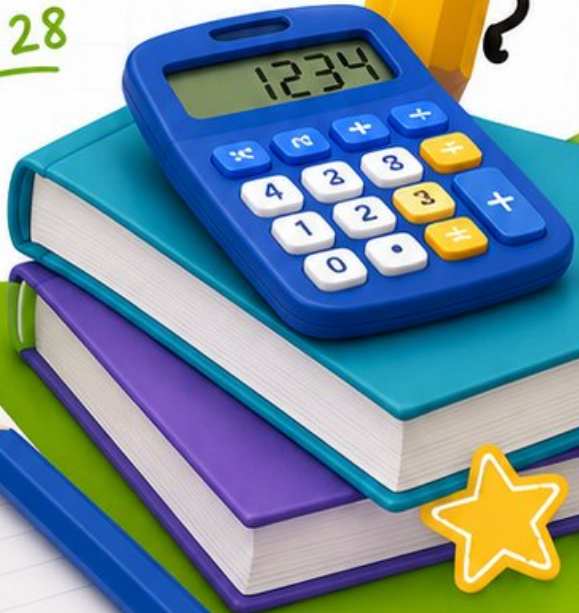
 STANDARDS-ALIGNED REVIEW

 MIXED PRACTICE QUESTIONS

 ANSWER KEY INCLUDED

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

 $4 \times 7 = 28$
 $36 \div 9 = 4$



4 Missouri MAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Missouri Math Explorer!

Four steady rounds on the Show-Me State math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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.

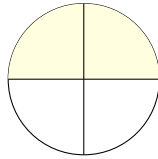
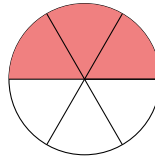


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& answers

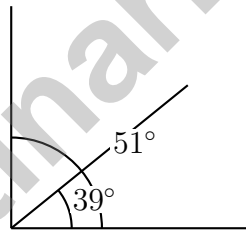
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- 1) Two circles are the same size. Circle 1 shows $\frac{2}{4}$ shaded. Circle 2 shows $\frac{3}{6}$ shaded. Which statement is true?

Circle 1: $\frac{2}{4}$ Circle 2: $\frac{3}{6}$

- A. Circle 1 is more shaded
- B. Circle 2 is more shaded
- C. Both circles are equally shaded
- D. Cannot compare circles of different sizes
- 2) Two pieces of ribbon are arranged at a vertex. The first ribbon makes an angle of 39° and the second makes an angle of 51° . Together, what angle do the ribbons form?



- A. 90°
- B. 51°
- C. 39°
- D. 130°
- 3) Ming has 936 marbles. She wants to pack them into bags with 9 marbles each. How many full bags can she make?

- A. 104
- B. 99
- C. 108
- D. 114



4) $\frac{3}{4}$ is equivalent to $\frac{6}{?}$. What is the missing denominator?

A. 6

C. 10

B. 12

D. 8

5) A triangle has all three angles less than 90° . How many acute angles does it have?

6) Ava drinks $\frac{1}{4}$ cup of juice 4 times a day. How much juice does she drink altogether?

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

C. $\frac{4}{1}$ cup

B. $\frac{1}{16}$ cup

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

7) Diego walked $2\frac{3}{10}$ miles on Monday and $1\frac{4}{10}$ miles on Tuesday. How many miles did he walk in total?

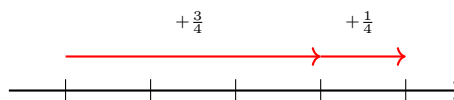
A. $3\frac{5}{10}$ miles

C. $3\frac{7}{10}$ miles

B. $3\frac{6}{10}$ miles

D. $4\frac{1}{10}$ miles

8) Which number line shows $\frac{3}{4} + \frac{1}{4} = 1$?



A. Starts at 0, hops to $\frac{1}{2}$

C. Starts at $\frac{1}{4}$, hops to 1

B. Starts at 0, hops to $\frac{3}{4}$, then to 1

D. Starts at $\frac{1}{2}$, hops to 1



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9) Amir needs 45 grams of butter for a recipe. He has 60 grams. How much extra butter does he have?

- A. 15 grams C. 60 grams
 B. 45 grams D. 105 grams

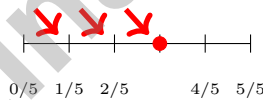
10) A pizza was cut into 12 slices. Marcus ate $\frac{3}{12}$ of the pizza and Sofia ate $\frac{4}{12}$. What fraction of the pizza remains?

- A. $\frac{7}{12}$ C. $\frac{1}{12}$
 B. $\frac{5}{12}$ D. $\frac{12}{12}$

11) A farmer has 80 sheep. She sells 25 sheep. Then she buys 30 new sheep. How many sheep does she have now?

- A. 75 C. 105
 B. 55 D. 85 sheep

12) The number line shows jumps of $\frac{1}{5}$ starting at 0. Where do the jumps land?



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

13) Lily saw a pie divided into 9 equal slices. She took 4 slices. Which correctly shows this fraction as a sum of unit fractions?

- A. $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$ C. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$
 B. $\frac{4}{9} + \frac{5}{9}$ D. $\frac{9}{9}$



1) How many tenths equal $\frac{20}{100}$?

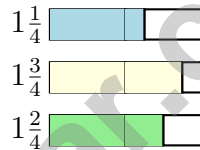
A. 2 tenths

C. 200 tenths

B. 20 tenths

D. 0.2 tenths

2) A bakery bakes 3 batches of rolls. Each batch makes 28 rolls. The rolls go into boxes of 8. How many complete boxes can they fill?



3)

Add the three mixed numbers shown: $1\frac{1}{4} + 1\frac{3}{4} + 1\frac{2}{4}$.

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

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

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

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

4) Which shows the four correct partial products for 24×19 ?

$20 \times 10 = 200$	$4 \times 10 = 40$
$20 \times 9 = 180$	$4 \times 9 = 36$

A.

$20 \times 19 = 380$	$4 \times 19 = 76$
20	4

B.

$20 \times 10 = 200$	$4 \times 19 = 76$
$20 \times 9 = 180$	$4 \times 10 = 40$

C.

$20 \times 10 = 200$	$4 \times 10 = 40$
$20 \times 9 = 180$	$4 \times 8 = 32$

D.



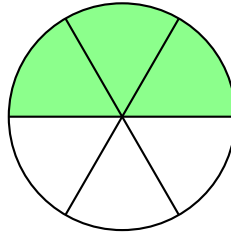
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- 1) If you turn $\frac{1}{6}$ of the way around a circle, how many degrees do you turn?
- A. 60° C. 120°
 B. 90° D. 180°
- 2) What is $\frac{6}{10} + \frac{20}{100}$?
- A. $\frac{26}{100}$ C. $\frac{26}{110}$
 B. $\frac{80}{100}$ D. $\frac{62}{100}$
- 3) Mia has $4\frac{2}{3}$ hours to complete a project. She spends $2\frac{1}{3}$ hours on the first part. How much time remains for the rest?
- A. $2\frac{1}{3}$ C. $6\frac{3}{3}$
 B. $1\frac{1}{3}$ D. $2\frac{2}{3}$
- 4) Write $\frac{9}{12}$ as a sum of three equal fractions. What is each fraction?



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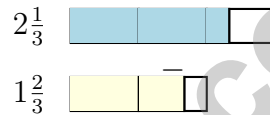
- 5) Look at the circle divided into equal parts. Which expression shows the shaded amount as a sum of unit fractions?



Pie divided into 6 equal slices

- A. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6}$
 C. $\frac{3}{3}$
 B. $\frac{3}{6}$
 D. $\frac{6}{3}$

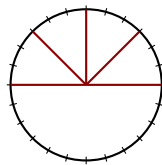
6)



Using the bar models shown, what is $2\frac{1}{3} - 1\frac{2}{3}$?

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

7)



A full circle is shown with several rays drawn inside. How many degrees are in the full circle?

- A. 90°
 C. 360°
 B. 180°
 D. 720°



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 C is correct.** (4.NF.A.1) Both circles show exactly half shaded: $\frac{2}{4} = \frac{1}{2}$ and $\frac{3}{6} = \frac{1}{2}$. Equally shaded!
- Choice A is correct.** (4.NF.B.4) The two ribbons meet at a vertex and form an angle. Add them: $39^\circ + 51^\circ = 90^\circ$.
- Choice A is correct.** (4.NBT.A.7) Divide: $9 \div 9 = 1$, bring down the 3 to get $3 \div 9 = 0$ r3, bring down the 6 to get $36 \div 9 = 4$. Ming makes 104 full bags.
- Choice D is correct.** (4.NF.A.1) The numerator changes from 3 to 6—that's multiply by 2. To keep fractions equivalent, multiply the denominator by 2 also: $4 \times 2 = 8$.
- The correct answer is 3.** (4.GM.A.2) Since all three angles are less than 90 degrees, all three angles are acute. The answer is 3.
- Choice A is correct.** (4.NF.B.7) Ava drinks $\frac{1}{4}$ cup 4 times, so we calculate $4 \times \frac{1}{4} = \frac{4 \times 1}{4} = \frac{4}{4} = 1$ cup. The answer is 1 cup.
- Choice C is correct.** (4.NF.B.5) Add the wholes: $2 + 1 = 3$. Add the fractions: $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$. The total is $3\frac{7}{10}$ miles.
- Choice B is correct.** (4.NF.B.5) Starting at 0, the first hop goes right by $\frac{3}{4}$. The second hop adds $\frac{1}{4}$ more, landing exactly at 1. That's $\frac{3}{4} + \frac{1}{4} = 1$.
- Choice A is correct.** (4.GM.C.7) Amir has 60 grams of butter but only needs 45 grams. Subtract: $60 - 45 = 15$ grams. He has 15 grams extra.
- Choice B is correct.** (4.NF.B.5) The pizza is cut into 12 slices. Step 1: Add the slices eaten: $\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$. Step 2: Subtract from the whole: $\frac{12}{12} - \frac{7}{12} = \frac{5}{12}$ remains.
- Choice D is correct.** (4.RA.A.2) Two steps! Step 1: take away the sheep she sold: $80 - 25 = 55$. Step 2: add the new sheep: $55 + 30 = 85$ sheep.
- Choice A is correct.** (4.NF.B.7) Starting at 0, we make 3 jumps forward, each of size $\frac{1}{5}$. The final red circle shows we land at $3 \times \frac{1}{5} = \frac{3}{5}$.
- Choice A is correct.** (4.NF.B.5) Lily took 4 slices out of 9 equal slices, which is $\frac{4}{9}$. Breaking it into unit fractions: $\frac{4}{9} = \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$ —four unit fractions of ninths.
- Choice B is correct.** (4.NF.C.9) All three have tenths = 7, so compare hundredths: $0 < 5 < 8$. Thus $0.70 < 0.75 < 0.80$.
- Choice A is correct.** (4.NBT.A.2) Subtract from 100,000 using regrouping across multiple zeros. The answer is 32,766.
- Choice C is correct.** (4.NF.B.5) Two complete bars (that's 2 wholes), then $\frac{3}{4}$ of the third bar. Total: $2\frac{3}{4}$ ✓.
- The correct answer is B, C.** (4.NBT.A.2) B (word form) and C (expanded) both equal 24,365. A and D both equal 24,356 (wrong). E has ones digit 6 instead of 5 ✓.
- Choice D is correct.** (4.RA.A.1) To find "how many times," divide the longer length by the shorter: $10 \div 2 = 5$. So the longer bar is 5 times as long as the shorter bar.
- Choice B is correct.** (4.GM.B.5) The ray points to the 132° mark, which is between 120° and 150° . Since 132° is between 90° and 180° , it's obtuse. The answer is 132 degrees.
- Choice C is correct.** (4.GM.A.1) An acute angle is small and pointy — less than 90° . Diagram C opens just a tiny bit (around 28°), so it's acute. The others are obtuse or right angles.
- Choice A is correct.** (4.GM.A.2) This angle has a small opening, smaller than a right angle, so it is acute.
- Choice C is correct.** (4.GM.C.8) From $88 = \ell \times 8$: Divide to get $\ell = 88 \div 8 = 11$ m.
- Choice D is correct.** (4.RA.A.1) Look at the picture: Raj's group has 2 rows of 6 books—that's 2 times Mira's amount. Multiply: $2 \times 6 = 12$ books.
- Choice C is correct.** (4.NBT.A.4) A digit 2 in the thousands place is worth 2,000; a 2 in the tens place is worth 20. The ratio is $2,000 \div 20 = 100$. ✓
- The correct answer is $\frac{5}{8}$.** (4.NF.B.7) Five eighths: $5 \times \frac{1}{8} = \frac{5}{8}$.
- Choice D is correct.** (4.RA.B.4) Test each: $21 = 3 \times 7$ (composite); $22 = 2 \times 11$ (composite); $24 = 2 \times 12$ (composite); 29 has no factors besides 1 and itself—**prime!**



Captain's Log

Ahoy, Math Sailor!

◇ You sailed through 4 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 4 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

PRACTICE TODAY, SUCCEED TOMORROW!

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

With 4 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.



Track Progress

Measure growth across multiple practice tests.



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
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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STANDARDS-
ALIGNED REVIEW



MIXED PRACTICE
QUESTIONS