

6 Missouri MAP

GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 Missouri MAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six 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.

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Welcome, Missouri Math Explorer!

Six steady rounds on the Show-Me State math route

This book gives you six 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?

Six tests, 180 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 4–6	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.

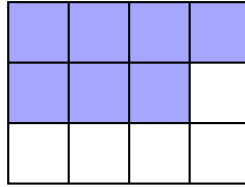


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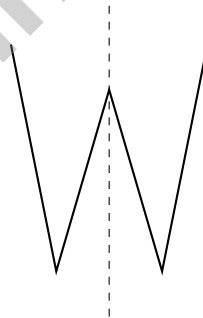
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- 1) A grid is divided into 12 equal squares. 7 squares are filled. Show this as a sum of unit fractions.



7 of 12 squares filled

- A. 7 copies of $\frac{1}{12}$ C. 7 copies of $\frac{1}{7}$
 B. 12 copies of $\frac{1}{12}$ D. 1 copy of $\frac{7}{12}$
- 2) Which fraction is between $\frac{4}{10}$ and $\frac{6}{10}$ on a number line?
- A. $\frac{45}{100}$ C. $\frac{75}{100}$
 B. $\frac{35}{100}$ D. $\frac{30}{100}$
- 3) How many lines of symmetry does the letter *W* shown below have?



- A. 0 lines C. 2 lines
 B. 1 line D. 3 lines



4) Add: $41,234 + 38,765 = ?$

A. 79,999

C. 79,989

B. 80,099

D. 80,199

5) How many rays form the sides of an angle?

A. 1 ray

C. 3 rays

B. 2 rays

D. 4 rays

6) A triangle has three angles that are all less than 90 degrees. What type of triangle is it?

A. Obtuse triangle

C. Right triangle

B. Acute triangle

D. Isosceles triangle

7) If an angle measures 55° , how many one-degree angles make it?

A. 5.5 one-degree angles

C. 110 one-degree angles

B. 55 one-degree angles

D. 550 one-degree angles

8) Find 32×19 .

9) A restaurant orders 96 napkins. They use 24 napkins on Monday. The remaining napkins are packed into boxes of 8. Then they receive 5 more boxes. How many boxes do they have now?

A. 9

C. 14

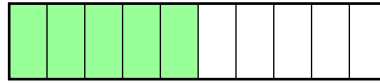
B. 13

D. 15



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1) Look at the model.



Which answer uses tenths to match this model?

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

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

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

D. $\frac{6}{10}$

2) A bookcase shelf is $\frac{3}{10}$ meter wide. What is the width of 4 shelves placed side by side?

A. $\frac{3}{40}$ meter

B. $\frac{12}{10}$ meters (or $1\frac{1}{5}$ meters)

C. $\frac{4}{10}$ meter

D. $\frac{12}{40}$ meter

3) What is 31×21 ?

A. 651

B. 341

C. 551

D. 52

4) Which decimal has the same value as $\frac{7}{10}$?

A. 0.07

B. 0.70

C. 7.0

D. 0.017

5) An angle measuring 112° is separated into two parts. If one part is 63° , what is the measure of the other part?

A. 49°

B. 175°

C. 63°

D. 56°



6) Ray AB starts at point:

- A. Any point between A and B C. Point A
 B. Point B D. The middle of the line

7) A library had 15,000 books. After a donation, they received 4,567 more books. How many books does the library have now?

8) A protractor is placed on an angle that opens to the right. One ray aligns with the 0-degree mark on the baseline. The other ray points to where two numbers appear: 65 on the outer scale and 115 on the inner scale. Which is the correct measure?

- A. 65 degrees (use outer scale if angle opens right) C. 50 degrees (115 minus 65)
 B. 115 degrees (use inner scale if angle opens left) D. Both are correct; protractors have two valid answers

9) If you rotate a shape by 45° , what fraction of a full turn is this?

- A. $\frac{1}{8}$ C. $\frac{1}{4}$
 B. $\frac{1}{6}$ D. $\frac{1}{3}$

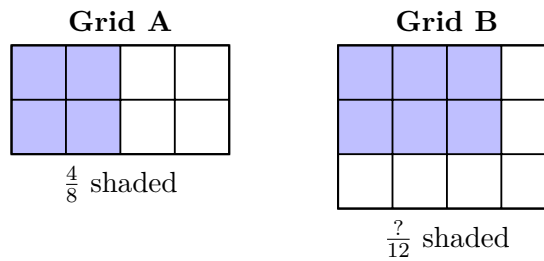
10) Which number rounds to 40,000 when rounded to the nearest thousand?

- A. 39,250 C. 40,499
 B. 40,750 D. 40,501



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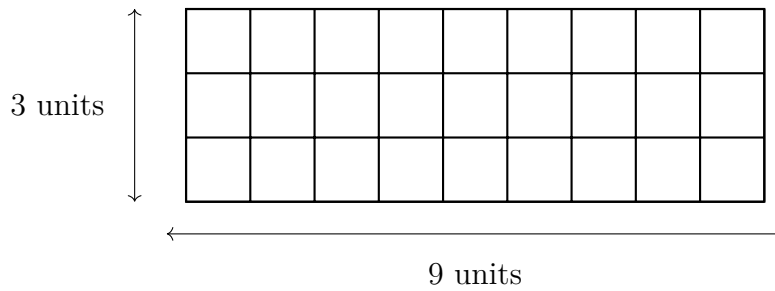
- 1) Look at the grid models below. Both grids show equivalent shaded regions. Which fraction should replace the question mark?



- | | |
|---|---|
| <p><input type="checkbox"/> A. $\frac{6}{12}$</p> <p><input type="checkbox"/> B. $\frac{8}{12}$</p> | <p><input type="checkbox"/> C. $\frac{4}{12}$</p> <p><input type="checkbox"/> D. $\frac{3}{12}$</p> |
|---|---|
- 2) Ethan has \$35 and spends \$12 on a book. How much money does he have left?
- | | |
|---|---|
| <p><input type="checkbox"/> A. \$12</p> <p><input type="checkbox"/> B. \$23</p> | <p><input type="checkbox"/> C. \$47</p> <p><input type="checkbox"/> D. \$35</p> |
|---|---|
- 3) A bottle holds $\frac{3}{8}$ liter. How much do 4 bottles hold altogether?
- | | |
|--|---|
| <p><input type="checkbox"/> A. $\frac{3}{32}$ liter</p> <p><input type="checkbox"/> B. $\frac{12}{8}$ liters or $1\frac{1}{2}$ liters</p> | <p><input type="checkbox"/> C. $\frac{7}{8}$ liter</p> <p><input type="checkbox"/> D. $\frac{4}{8}$ liter</p> |
|--|---|



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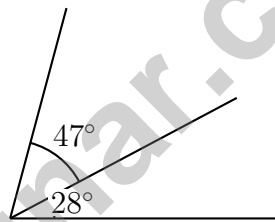


4)

What is the area of the rectangle shown?

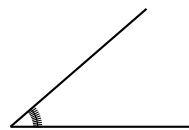
- A. 27 sq units
- B. 24 sq units
- C. 12 sq units
- D. 36 sq units

5) Look at the angle diagram. Two angles share a vertex. One angle measures 28° and the other measures 47° . Together, what is the total measure of both angles?



- A. 19°
- B. 75°
- C. 104°
- D. 90°

6)



This angle has tick marks from 0 to 40 degrees. What is the measure of the angle?

- A. 40°
- B. 41°
- C. 39°
- D. 80°



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.NF.B.5) The grid has 12 equal squares, and 7 are filled. So the fraction is $\frac{7}{12}$, which is 7 copies of $\frac{1}{12}$.
- Choice A is correct.** (4.NF.C.9) Convert both endpoints: $\frac{4}{10} = \frac{40}{100}$ and $\frac{6}{10} = \frac{60}{100}$. The fraction $\frac{45}{100}$ falls between them.
- Choice B is correct.** (4.GM.A.3) The letter *W* has a series of peaks and valleys. A vertical line down the middle divides it so each side looks identical. The answer is **1** line of symmetry.
- Choice A is correct.** (4.NBT.A.2) Add by place value: ones $4 + 5 = 9$, tens $3 + 6 = 9$, hundreds $2 + 7 = 9$, thousands $1 + 8 = 9$, ten-thousands $4 + 3 = 7$. The sum is **79,999**.
- Choice B is correct.** (4.GM.A.2) An angle always has exactly **2** rays that form its sides.
- Choice B is correct.** (4.GM.A.2) An acute triangle is identified by all three angles being less than 90 degrees. When all angles are acute, the triangle itself is classified as acute. The answer is **B**.
- Choice B is correct.** (4.GM.A.2) When an angle measures 55° , it is made of **55** one-degree angles.
- The correct answer is 608.** (4.NBT.A.6) Use a clever strategy: $32 \times 19 = 32 \times (20 - 1) = 640 - 32 = \mathbf{608}$.
- Choice C is correct.** (4.RA.A.2) Three steps! Step 1: napkins left after Monday: $96 - 24 = 72$. Step 2: pack into boxes of 8: $72 \div 8 = 9$ boxes. Step 3: add the new boxes: $9 + 5 = 14$ boxes total.
- Choice A is correct.** (4.DS.A.2) Look at $\frac{1}{2}$ inch: there are 2 X marks. At $\frac{3}{2}$ inches: there are 3 X marks. The difference is $3 - 2 = 1$.
- The correct answer is $3\frac{7}{8}$.** (4.NF.B.5) Add the wholes: $2 + 1 = 3$. Add the fractions: $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$. The sum is **$3\frac{7}{8}$** . Since the fractions add to less than a whole, no regrouping is needed.
- Choice D is correct.** (4.NBT.A.4) In 5,003, the hundreds place has the digit 0. Its value is $0 \times 100 = \mathbf{0}$. ✓
- Choice D is correct.** (4.RA.A.1) "8 times as many" is a multiplication signal. Make 8 groups of the 4 basketballs: $4 \times 8 = 32$ tennis balls.
- Choice C is correct.** (4.GM.C.8) Poster area = $16 \times 10 = 160$ sq in.
- The correct answer is A, D.** (4.NF.B.5) A: $6 \div 2 = 8$ eighths = 1 whole ✓. D: $5 \div 1 = 6$ sixths = 1 whole ✓. B: $\frac{6}{5}$ (more than 1). C: $\frac{7}{8}$ (less than 1). E: $\frac{5}{4}$ (more than 1).
- Choice C is correct.** (4.GM.A.2) $\frac{7}{12} + \frac{1}{12} = \frac{8}{12} = \frac{2}{3}$ of a full turn. $\frac{2}{3} \times 360^\circ = 240^\circ$.
- Choice A is correct.** (4.NBT.A.7) Long division: $2 \div 8 = 0$ r2, bring down the 4 to get $24 \div 8 = 3$, bring down the 3 to get $3 \div 8 = 0$ r3, bring down the 2 to get $32 \div 8 = 4$. The answer is **304**.
- Choice A is correct.** (4.NF.C.9) The number line counts by tenths: 0.2 is the very first mark to the right of 0, so it's at position A.
- Choice D is correct.** (4.NBT.A.2) "Seventy-eight thousand" = 78,000, so the full number is 78,412. The digit 8 is in the thousands place ✓
- Choice C is correct.** (4.GM.C.7) Day one: 120 miles. Day two: 145 miles. Add: $120 + 145 = 265$ miles. The total distance is **265** miles.
- Choice D is correct.** (4.GM.C.6) Since 1 foot = 12 inches, multiply: $4 \times 12 = 48$ inches. The answer is **48** inches.
- Choice D is correct.** (4.GM.A.1) Perpendicular segments cross at exactly 90° — look for that special little square symbol. Diagram D has it, showing two segments meeting perfectly at right angles.
- The correct answer is 1.** (4.NF.B.7) Six sixths: $6 \times \frac{1}{6} = \frac{6}{6} = 1$.
- Choice D is correct.** (4.RA.B.4) To check if 56 is a multiple of 8, divide: $56 \div 8 = 7$ exactly (no remainder). Since $8 \times 7 = 56$, yes—56 is a multiple of 8.
- Choice B is correct.** (4.NF.B.5) The flour bag started full, and some was used. Find how much was used by subtracting what remains: $5\frac{3}{10} - 2\frac{1}{10} = 3\frac{2}{10}$ pounds of flour was used.
- Choice B is correct.** (4.GM.B.5) The ray points to the 175° mark, which is just 5° short of a straight angle (180°). This is a very wide obtuse angle. The answer is **175** degrees.



A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 6 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 6 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

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

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

PERFECT FOR:

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- ✔ Homework & Review
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- ✔ Test Preparation
- ✔ Skill Reinforcement
- ✔ Confidence Building

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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.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



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 & Equivalent Fractions
- ✔ Decimals
- ✔ Geometry & Measurement
- ✔ Perimeter & Area
- ✔ Data, Graphs & Line Plots
- ✔ Patterns & Algebraic Thinking
- ✔ And More!



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Strengthens Critical Thinking & Problem Solving



Encourages Independent Learning



Prepares Students for Test Day Success