

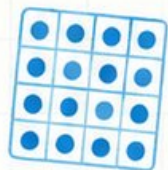
$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$

10

$$7 \times 8 = 56$$



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

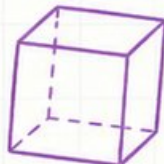


Missouri

MAP

GRADE 4

MATH



PRACTICE TESTS

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



10 Missouri MAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Show-Me State math route

This book gives you ten 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole Missouri book.
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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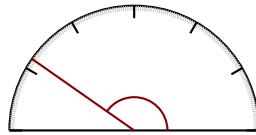
1) Mia says the angle she drew contains 92 one-degree angles. What is the measure of her angle?

A. 92°

C. 184°

B. 46°

D. 9.2°



2)

What is the measure of this obtuse angle?

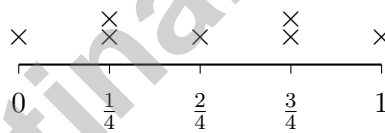
A. 145 degrees

C. 155 degrees

B. 135 degrees

D. 125 degrees

3) Here is a line plot with measurements in fourths:



What is the range (difference between highest and lowest values) on this line plot?

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

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

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

D. 1

4) Which decimal is greatest?

A. 0.19

C. 0.11

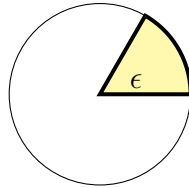
B. 0.91

D. 0.99



5) Which shape does NOT have any pairs of parallel sides?

- A. Rectangle C. Triangle
 B. Parallelogram D. Trapezoid



6)

The shaded sector shown measures 60° . How many sectors like this fit around the entire circle?

- A. 4 C. 8
 B. 6 D. 12

7) A pattern starts at 50 and follows the rule “subtract 5.” Which list shows the first four terms?

- A. 50, 45, 40, 35 C. 50, 45, 40, 30
 B. 50, 55, 60, 65 D. 50, 40, 30, 20

8) Mia weighs 42 pounds. Her dog weighs 18 pounds. How much more does Mia weigh than her dog?

- A. 24 pounds C. 18 pounds
 B. 60 pounds D. 42 pounds



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1) Which decimal is between 0.3 and 0.4?

A. 0.25

C. 0.45

B. 0.35

D. 0.05

2) All of the following figures have at least one line of symmetry **except** which one?

A. An equilateral triangle

C. A slanted parallelogram with unequal adjacent sides

B. A rectangle

D. An isosceles triangle

3) A shop owner buys 5 bottles of cleaner, with 12 fluid ounces in each bottle. How many fluid ounces of cleaner does he buy?

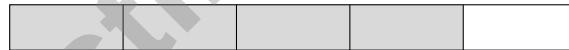
A. 17 fl oz

C. 65 fl oz

B. 60 fl oz

D. 72 fl oz

4) The fraction bar below is divided into equal parts. How many parts are shaded, and what fraction do they represent?



A. 1 part; $\frac{1}{5}$

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

B. 2 parts; $\frac{2}{5}$

D. 5 parts; $\frac{5}{5}$

5) Mia has the digit 8 in the hundreds place of a four-digit number. If she moves this digit to the thousands place, the value of this digit increases by how much?

A. 800

C. 8,000

B. 200

D. 7,200



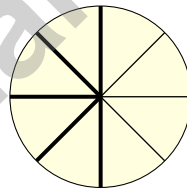
6) The sides of an angle are:

- A. segments C. rays
 B. lines D. circles

7) A baker needs $\frac{7}{12}$ cup of sugar and has $\frac{3}{12}$. How much more is needed?

8) Two parallel lines are best described as:

- A. Lines that meet at a right angle C. Lines that meet at any angle
 B. Lines that never meet and are always the same distance apart D. Lines that share a common endpoint



Pie divided into eighths

9)

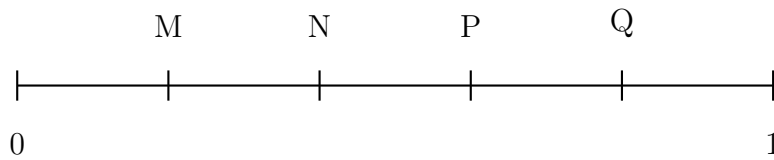
James eats $\frac{1}{8}$ of a pie each day. How much of the pie does he eat in 5 days?

- A. $\frac{1}{40}$ of the pie C. $\frac{5}{40}$ of the pie
 B. $\frac{5}{8}$ of the pie D. $\frac{6}{8}$ of the pie



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1) Which letter shows the location of 0.8 on the number line?



- A. At M
- B. At N
- C. At P
- D. At Q
- 2) Two angles are measured: one is 55 degrees and one is 165 degrees. Which statement is true?
- A. Both angles are acute
- B. Both angles are obtuse
- C. One is acute and one is obtuse
- D. Both angles are right angles
- 3) The value of the digit 9 in the thousands place is how many times the value of the digit 9 in the hundreds place?
- A. 1,000
- B. 100
- C. 9 times
- D. 10
- 4) Which two fractions are both equivalent to $\frac{1}{5}$?
- A. $\frac{2}{10}$ and $\frac{20}{100}$
- B. $\frac{3}{10}$ and $\frac{30}{100}$
- C. $\frac{2}{10}$ and $\frac{30}{100}$
- D. $\frac{1}{10}$ and $\frac{10}{100}$



Boxes and Balls5 boxes: 55 balls

Balls per box = ?

5)

A store arranges 5 boxes of balls. If there are 55 balls total, how many balls are in each box?

 A. 9 C. 10 B. 12 D. 11 balls6) Which fraction equals $7 \times \frac{1}{3}$? A. $\frac{3}{7}$ C. $\frac{1}{21}$ B. $\frac{7}{3}$ or $2\frac{1}{3}$ D. $\frac{7}{7}$

7) Compare the volumes. Which is smaller: 3 liters or 2,500 milliliters?

 A. 3 liters C. They are the same size B. 2,500 milliliters D. Cannot be determined8) A class did two separate measurements: Batch A has values $\frac{2}{8}$, $\frac{3}{8}$, $\frac{1}{8}$. Batch B has values $\frac{3}{8}$, $\frac{5}{8}$. What is the difference between the sum of Batch B and sum of Batch A? A. 0 C. $\frac{2}{8}$ B. $\frac{1}{8}$ D. $\frac{3}{8}$ 

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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.A.2)** If Mia's angle contains 92 one-degree angles, its measure is 92° .
- Choice A is correct.** **(4.GM.B.5)** The ray points to the 145° mark, which is between the 135° and 150° benchmarks. Since 145° is between 90° and 180° , it's obtuse. The answer is **145** degrees.
- Choice D is correct.** **(4.DS.A.2)** The lowest value on the line plot is 0 inch and the highest is 1 inch. The range is $1 - 0 = 1$ inch.
- Choice D is correct.** **(4.NF.C.9)** The tenths place decides it: 9 is the largest. Among the two with tenths = 9, compare hundredths: $9 > 1$, so $0.99 > 0.91$.
- Choice C is correct.** **(4.GM.A.2)** A triangle has three sides, so it cannot have a pair of opposite sides. Parallel sides require opposite sides, which triangles do not have. Rectangles, parallelograms, and trapezoids all have parallel sides. The answer is **C**.
- Choice B is correct.** **(4.GM.A.2)** A circle is 360° total, and each sector is 60° : $360^\circ \div 60^\circ = 6$ sectors.
- Choice A is correct.** **(4.RA.B.4)** Apply "subtract 5" starting at 50. Term 1: 50. Term 2: $50 - 5 = 45$. Term 3: $45 - 5 = 40$. Term 4: $40 - 5 = 35$. So the first four terms are 50, 45, 40, 35, which matches choice A.
- Choice A is correct.** **(4.GM.C.7)** Mia weighs 42 pounds and her dog weighs 18 pounds. Subtract to compare: $42 - 18 = 24$ pounds. Mia weighs **24** pounds more.
- Choice A is correct.** **(4.NBT.A.7)** Divide: $13 \div 4 = 3$ r1, bring down the 7 to get $17 \div 4 = 4$ r1, bring down the 2 to get $12 \div 4 = 3$. They make **343** complete bundles.
- Choice B is correct.** **(4.GM.C.6)** Since 1 centimeter = 10 millimeters, multiply: $5 \times 10 = 50$ mm. The answer is **50** mm.
- Choice A is correct.** **(4.NF.B.7)** A multiple of $\frac{1}{5}$ means we count by fifths. We can write $\frac{2}{5} = 2 \times \frac{1}{5}$, so it's a multiple. The others don't fit that pattern.
- Choice A is correct.** **(4.NF.B.5)** Same denominator for subtraction too! Just subtract numerators: $5 - 2 = 3$, keep the denominator. Result: $\frac{3}{6}$.
- Choice A is correct.** **(4.NF.B.5)** One whole ($\frac{4}{4}$) as unit fractions means four pieces of $\frac{1}{4}$: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4} \checkmark$.
- Choice C is correct.** **(4.NBT.A.4)** Step 1: Find each 3's place—thousands, hundreds, and tens. Step 2: Calculate values: $3,000 + 300 + 30 = 3,330$. \checkmark
- Choice A is correct.** **(4.NF.B.5)** We have three copies of $\frac{1}{2}$. When we add unit fractions with the same denominator, we keep the denominator and count the numerators: $1 + 1 + 1 = 3$, so $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{3}{2}$.
- Choice A is correct.** **(4.NF.B.5)** Jackson starts with juice and drinks some. Subtract the amount he drinks: $3\frac{5}{6} - 2\frac{2}{6} = 1\frac{3}{6}$ cups of juice remain.
- Choice B is correct.** **(4.NF.B.4)** The diagram shows a straight angle divided into three parts. Add the two known ones: $48^\circ + 62^\circ = 110^\circ$. Then subtract: $180^\circ - 110^\circ = 70^\circ$.
- The correct answer is B, E.** **(4.NF.B.5)** Check A: $\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$; no regrouping needed. Check B: $\frac{1}{5} < \frac{4}{5}$, so regroup: $3\frac{1}{5} = 2\frac{6}{5}$. Regrouping is needed. Correct! Check C: This is addition, so it is not a mixed-number subtraction problem. Check D: $\frac{2}{10} - \frac{1}{10} = \frac{1}{10}$; no regrouping needed. Check E: $\frac{3}{8} < \frac{6}{8}$, so regroup: $2\frac{3}{8} = 1\frac{11}{8}$. Regrouping is needed. Correct! B and E are the answers.
- Choice D is correct.** **(4.NBT.A.2)** Add from right to left: ones give 13 (write 3, carry 1), tens give 12 (write 2, carry 1), hundreds give 10 (write 0, carry 1), thousands give 8. The sum is **8,023**.
- The correct answer is 90.** **(4.GM.A.1)** The corner of a square is always a right angle, and a right angle is always 90° .
- Choice B is correct.** **(4.GM.C.8)** Window area = $4 \times 3 = 12$ sq ft.
- Choice D is correct.** **(4.NF.B.7)** The bar model shows two bars, each divided in half with one half shaded in each. This matches $2 \times \frac{1}{2}$, which means 2 copies of $\frac{1}{2}$. The answer is $2 \times \frac{1}{2}$ (Choice D).
- Choice B is correct.** **(4.NF.C.9)** First, convert $\frac{3}{10}$ to hundredths: $\frac{3}{10} = \frac{30}{100}$. Now add all three fractions: $\frac{30}{100} + \frac{20}{100} + \frac{5}{100} = \frac{55}{100}$.
- Choice B is correct.** **(4.NF.C.9)** The marks divide the line: W is at 0.25 and X is at 0.50. Since 0.45 falls between these two values, it's in the region between W and X.



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★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

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- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

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