

6 Montana MAST

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 Montana MAST Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question Grade 4 practice rounds for MAST, built around big skies, mountain trails, and patient problem reading, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Montana Math Explorer!

Six steady rounds on the Treasure State math route

This book gives you six full Grade 4 practice tests for MAST. Each round uses big skies, mountain trails, and patient problem reading to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Montana 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 Montana MAST 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 Treasure 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 MAST 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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& answers

Table of Contents

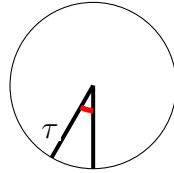
★ Practice Test 1	_____	14
★ Practice Test 2	_____	25
★ Practice Test 3	_____	36
★ Practice Test 4	_____	47
★ Practice Test 5	_____	59
★ Practice Test 6	_____	70
Practice Test Answer Keys	_____	81
Practice Test Answers and Explanations	_____	85

1) Which is true?

- A. $0.5 > \frac{6}{10}$
 B. $0.5 < \frac{4}{10}$

- C. $0.5 = \frac{5}{10}$
 D. $0.5 = \frac{5}{100}$

2)



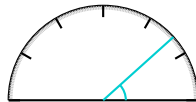
What is the measure of angle τ in the diagram?

- A. 30°
 B. 45°

- C. 60°
 D. 90°

3) A recipe uses $\frac{3}{4}$ cup of flour and $\frac{2}{3}$ cup of sugar. Which amount is greater?

4)



What is the measure of the angle shown?

- A. 42 degrees
 B. 48 degrees

- C. 40 degrees
 D. 45 degrees



1) Which subtraction is correct?

A. $7,123 - 2,456 = 4,667$

C. $7,123 - 2,456 = 5,567$

B. $7,123 - 2,456 = 5,667$

D. $7,123 - 2,456 = 5,777$

2) A quadrilateral has two pairs of parallel sides and all four angles are right angles. The opposite sides are equal but not all sides are the same length. What is this shape?

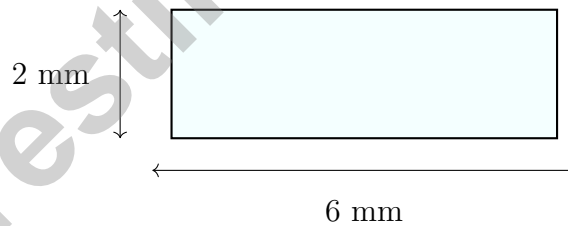
A. Rhombus

C. Rectangle

B. Trapezoid

D. Square

3) Simplify $\frac{2}{8}$.



4)

What is the area of the rectangle shown?

A. 8 sq mm

C. 16 sq mm

B. 18 sq mm

D. 12 sq mm



5) Which option shows TWO different decompositions that both equal $\frac{10}{12}$?

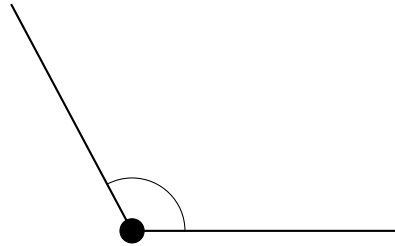
A. $\frac{6}{12} + \frac{4}{12}$ and $\frac{5}{12} + \frac{5}{12}$

C. $\frac{4}{12} + \frac{4}{12} + \frac{2}{12}$ and $\frac{6}{12} + \frac{5}{12}$

B. $\frac{7}{12} + \frac{3}{12}$ and $\frac{8}{12} + \frac{3}{12}$

D. $\frac{9}{12} + \frac{2}{12}$ and $\frac{3}{12} + \frac{6}{12}$

6)



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

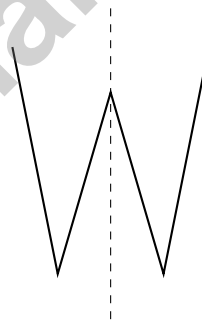
A. Acute

C. Obtuse

B. Right

D. Straight

7) How many lines of symmetry does the letter *W* shown below have?



A. 0 lines

C. 2 lines

B. 1 line

D. 3 lines



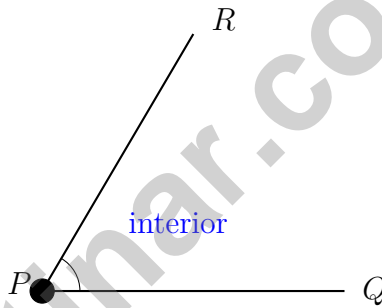
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1) Point T is between points R and S . If $RT = 5$ and $TS = 7$, what is RS ?

2) Which of the following does **not** have at least one line of symmetry?

- | | |
|--|--|
| <input type="checkbox"/> A. Right isosceles triangle | <input type="checkbox"/> C. Scalene right triangle |
| <input type="checkbox"/> B. Equilateral triangle | <input type="checkbox"/> D. Isosceles trapezoid |

3)

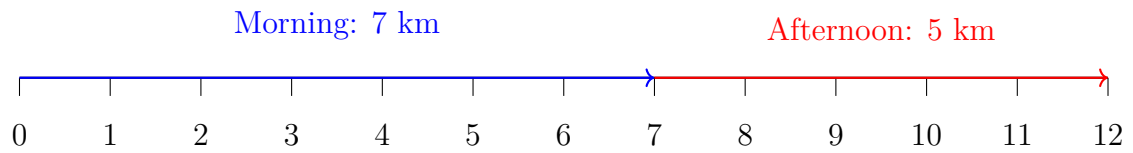


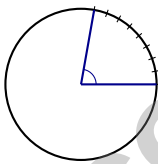
Which part of the angle is labeled blue?

- | | |
|--|--|
| <input type="checkbox"/> A. The vertex | <input type="checkbox"/> C. The interior |
| <input type="checkbox"/> B. The sides | <input type="checkbox"/> D. The exterior |



- 4) A number line shows distances in kilometers. A walker travels from 0 km to 7 km in the morning, then 5 km more in the afternoon. What is the final distance from the start?



- A. 2 km C. 12 km
 B. 7 km D. 14 km
- 5) 
- Look at the angle shown. It is marked from 0° to 80° . Write the measure of the angle.

- 6) A function rule is "add 12." If the input is 8, what is the output?
- A. 96 C. 4
 B. 19 D. 20



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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 C is correct.** (4.NF.5) 0.5 is five tenths: $0.5 = \frac{5}{10}$. This is the correct equation.
- Choice A is correct.** (4.MD.5) The angle spans between two rays in the lower portion of the circle, measuring 30° .
- The correct answer is $\frac{3}{4}$.** (4.NF.1) Find common denominator 12: $\frac{3}{4} = \frac{9}{12}$ and $\frac{2}{3} = \frac{8}{12}$. Since $9 > 8$, $\frac{3}{4}$ cup of flour is greater.
- Choice A is correct.** (4.MD.6) The ray points to the 42° mark, which is between the 30° and 60° benchmarks. Since $42^\circ < 90^\circ$, it's an acute angle. The answer is **42** degrees.
- Choice B is correct.** (4.MD.3) Using area formula: $48 = 8 \times w$. Divide: $w = 48 \div 8 = 6$ ft.
- Choice D is correct.** (4.OA.2) "6 times as many" tells us to multiply. Maya has 6 groups of Sam's 4 cards: $6 \times 4 = 24$ trading cards.
- Choice D is correct.** (4.NBT.5) Split 16: $5 \times (10 + 6) = 50 + 30 = 80$ pages.
- Choice B is correct.** (4.G.2) A rectangle is defined by having four right angles at each corner. Trapezoids may have only one or two right angles, rhombuses typically have no right angles, and parallelograms have opposite angles equal but not necessarily 90° . The answer is **B**.
- Choice A is correct.** (4.NF.5) The tenths place is the same (3 tenths for both). Compare the hundredths: $8 > 7$, so $0.38 > 0.37$.
- Choice D is correct.** (4.NBT.6) Use long division: $20 \div 7 = 2$ r6, bring down the 4 to get $64 \div 7 = 9$ r1, bring down the 7 to get $17 \div 7 = 2$ r3. The remainder is **3**.
- Choice B is correct.** (4.MD.2) Ethan has \$35 and spends \$12 on a book. Subtract: $35 - 12 = 23$ dollars. He has **\$23** left.
- Choice C is correct.** (4.G.3) The block letter T has one vertical line of symmetry down the center. The left and right halves match, but the top and bottom halves do not. The answer is choice **C**.
- Choice D is correct.** (4.NBT.4) Add from right to left: ones $4 + 5 = 9$, tens $3 + 4 = 7$, hundreds $2 + 1 = 3$, thousands $5 + 2 = 7$. The sum is **7,379**.
- The correct answer is A, C.** (4.MD.7) B is wrong (straight angles can be divided). D is wrong (smaller angles combine to form a right angle). E is wrong ($120^\circ \div 3 = 40^\circ$, not 30°).
- The correct answer is $\frac{2}{5}$.** (4.NF.1) Check each one: $\frac{1}{3} = \frac{2}{6}$ (multiply by 2) and $\frac{1}{3} = \frac{3}{9}$ (multiply by 3). But $\frac{2}{5}$ is different—not equivalent to $\frac{1}{3}$.
- Choice B is correct.** (4.NF.3) Start with $\frac{3}{2}$ halves. Take away $\frac{1}{2}$: $3 - 1 = 2$ halves, which equals **1** whole.
- The correct answer is 8.** (4.OA.3) Equal teams is a division signal. Step 1: set up: $48 \div 6$. Step 2: solve: $48 \div 6 = 8$ students on each team. *Quick check:* $6 \times 8 = 48$. ✓
- Choice C is correct.** (4.NBT.2) From right to left: ones, then tens. In 7,846, the tens digit is **4** ✓
- Choice C is correct.** (4.G.1) Any angle smaller than 90° is acute. Since 75° is less than 90° , this angle is definitely acute.
- Choice B is correct.** (4.MD.5) A straight angle is a 180° angle, meaning it turns through **180** one-degree angles.
- Choice D is correct.** (4.OA.4) Test the small primes: 29 is odd (not $\div 2$); $2 + 9 = 11$ (not $\div 3$); doesn't end in 0 or 5 (not $\div 5$); $7 \times 4 = 28$, $7 \times 5 = 35$, no 7. So 29 has only factors 1 and 29—**prime**.
- Choice C is correct.** (4.NBT.1) In 3,472, the digit 4 is in the hundreds place. Its value is $4 \times 100 = 400$. ✓
- Choice B is correct.** (4.NF.5) To convert $\frac{6}{10}$, multiply numerator and denominator by 10: $\frac{6}{10} = \frac{6 \times 10}{10 \times 10} = \frac{60}{100}$.
- Choice B is correct.** (4.NF.3) $\frac{4}{10}$ means 4 pieces out of 10, and each piece is $\frac{1}{10}$. So $\frac{4}{10} = \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$.
- Choice B is correct.** (4.MD.1) Since 1 pint = 16 fluid ounces, multiply: $2 \times 16 = 32$ fl oz. The answer is **32** fl oz.
- Choice A is correct.** (4.NF.4) We have 2 strings that are each $\frac{2}{8}$ meter long. We multiply: $2 \times \frac{2}{8} = \frac{4}{8}$, which simplifies to $\frac{1}{2}$ meter.
- Choice D is correct.** (4.OA.1) Step 1: find Liam's stickers: $7 \times 3 = 21$. Step 2: "how many *more*" is a subtraction: $21 - 7 = 14$. So Liam has **14** more stickers than Sofia.



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Ahoy, Math Sailor!

◇ You sailed through 6 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 6 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 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:

- ✔ Classroom Practice
- ✔ Homework & Review
- ✔ Independent Learning
- ✔ Test Preparation
- ✔ Skill Reinforcement
- ✔ Confidence Building

★ **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.



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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