

# 8 Montana MAST GRADE 4



## PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Montana MAST Grade 4 Math Practice Tests

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



Eight 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!

Eight steady rounds on the Treasure State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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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1) Which decimal represents  $\frac{7}{10}$ ?

A. 0.07

C. 7.0

B. 0.7

D. 0.77

2) Complete the table using the rule “multiply by 2 then add 1”:

Input	1	2	3	4
Output	3	5	7	?

A. 8

C. 11

B. 13

D. 9

3) Tyler has 6 toy trains. His cousin has 4 times as many toy trains. How many toy trains does his cousin have?

4) A book club buys 9 bundles of books. Each bundle has 15 books. If they distribute all books to 5 libraries equally, how many books does each library receive?

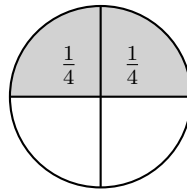
A. 24 books

C. 30 books

B. 25 books

D. 27 books





$\frac{1}{2}$  painted

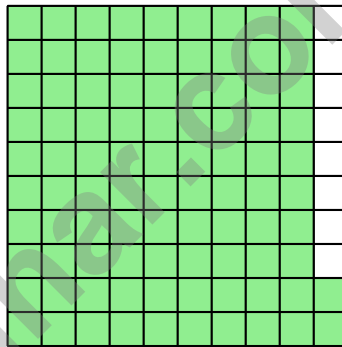
5)

A circular garden section is  $\frac{1}{2}$  painted yellow. How much of the garden is not painted?

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

- C.  $\frac{3}{4}$
- D.  $\frac{3}{8}$

6) How many hundredths are shaded in this grid?



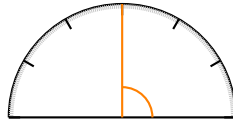
- A. 8 hundredths or 0.08
- B. 80 hundredths or 0.80

- C. 92 hundredths or 0.92
- D. 20 hundredths or 0.20

7) Find  $6\frac{5}{8} - 3\frac{7}{8}$ .



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8)

Sam uses a protractor to measure an angle. The angle lines up exactly with the 90-degree mark. What type of angle is this?

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

9) How many square tiles fit in a grid that is 26 units long and 12 units wide?

- A. 200                                   C. 262  
 B. 352                                   D. 312

10) An error analysis: A student added  $\frac{2}{4} + \frac{3}{4}$  and got  $\frac{5}{8}$ . What did the student do wrong?

- A. Added the denominators instead of keeping them the same.       C. Forgot to simplify.  
 B. Subtracted instead of added.       D. Used the wrong denominator in the answer.

11) Elena has 2 ropes. Each rope is  $\frac{3}{4}$  meter long. How much rope does she have altogether?

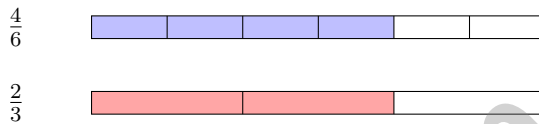
- A.  $\frac{6}{4}$  meters or  $1\frac{2}{4}$  meters                       C.  $\frac{3}{8}$  meter  
 B.  $\frac{2}{4}$  meter     D.  $\frac{3}{4}$  meter



1) A compass needle rotates  $78^\circ$  clockwise, then another  $42^\circ$  clockwise. What is the total clockwise rotation?

- A.  $36^\circ$ 
 C.  $78^\circ$   
 B.  $120^\circ$ 
 D.  $180^\circ$

2) Two fraction bars are shown below. Which statement is correct?

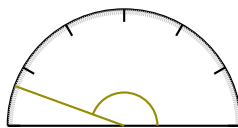


- A.  $\frac{4}{6} < \frac{2}{3}$ 
 C.  $\frac{4}{6} = \frac{2}{3}$   
 B.  $\frac{4}{6} > \frac{2}{3}$ 
 D. Cannot determine

3) Zara read  $3\frac{2}{5}$  pages in the morning and  $2\frac{3}{5}$  pages in the afternoon. What is the total number of pages she read?

- A.  $5\frac{4}{5}$  pages
  C. 6 pages  
 B.  $5\frac{5}{5}$  pages
  D.  $6\frac{1}{5}$  pages

4)



What is the measure of the angle shown?

- A. 150 degrees
  C. 170 degrees  
 B. 140 degrees
  D. 160 degrees



5) Which decimal is greatest?

A. 0.19

B. 0.91

C. 0.11

D. 0.99

6) What is the sum of the following unit fractions:  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ ?

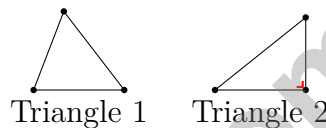
A.  $\frac{4}{4}$

B.  $\frac{4}{16}$

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

D.  $\frac{1}{16}$

7) Look at the two triangles. Which one is a right triangle?



A. Triangle 1

B. Triangle 2

C. Both triangles

D. Neither triangle

8) Lily had 3 sticker sheets. Her grandmother gave her 4 times as many sticker sheets as Lily already had. How many sticker sheets does Lily have in all?

A. 7

B. 12

C. 16

D. 15

9) What is  $21 \times 41$ ?

A. 782

B. 920

C. 841

D. 861



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1) What is  $34,567 + 12,321$ ?

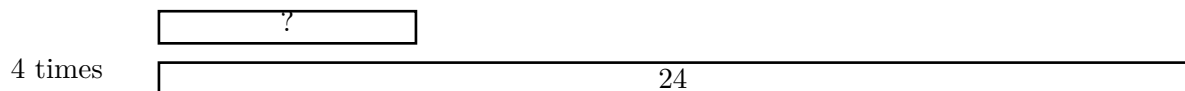
A. 46,888

C. 47,888

B. 46,788

D. 46,978

2)



A fruit stand has 24 apples. The number of apples is 4 times the number of oranges. How many oranges are there?

A. 4

C. 8

B. 12

D. 6

3) Write  $\frac{8}{5}$  as a mixed number.

4) The perimeter of a rectangle is 24 meters. If the length is 7 meters, what is the width?

A. 3 m

C. 5 m

B. 4 m

D. 6 m



5) Which fraction is closest to 1 whole?

- A.  $\frac{4}{6}$   
 B.  $\frac{5}{8}$

- C.  $\frac{6}{10}$   
 D.  $\frac{3}{4}$

6) Write 0.42 as a fraction with denominator 100.

7) Which type of angle would you find at the corner of a picture frame?

- A. Acute angle  
 B. Right angle

- C. Obtuse angle  
 D. Straight angle

8) Write the numeral for “three hundred nineteen thousand, five hundred two”.

9) A geometric pattern grows with stacked shapes:



Figure 1   Figure 2   Figure 3

How many unit squares are in Figure 4?

- A. 25  
 B. 18

- C. 20  
 D. 16



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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 B is correct.** (4.NF.5) Seven tenths equals:  $\frac{7}{10} = \frac{70}{100} = 0.70 = 0.7$ .
- Choice D is correct.** (4.OA.4) Apply the rule “multiply by 2 then add 1” to input 4:  $(2 \times 4) + 1 = 8 + 1 = 9$ .
- The correct answer is 24.** (4.OA.1) “4 times as many” tells us to multiply. The cousin has  $6 \times 4 = 24$  trains.
- Choice D is correct.** (4.OA.3) Two steps! Step 1: total books from all bundles:  $9 \times 15 = 135$  books. Step 2: divide equally among 5 libraries:  $135 \div 5 = 27$  books each.
- Choice A is correct.** (4.NF.3) The circular garden section is shown with yellow paint. Subtract the painted part from the whole:  $1 - \frac{1}{2} = \frac{1}{2}$  unpainted.
- Choice C is correct.** (4.NF.5) The grid shows 92 shaded squares out of 100 total. That’s  $\frac{92}{100} = 0.92$ .
- The correct answer is  $2\frac{6}{8}$ .** (4.NF.3) Since  $\frac{5}{8} < \frac{7}{8}$ , regroup:  $6\frac{5}{8} = 5\frac{13}{8}$ . Then subtract:  $5\frac{13}{8} - 3\frac{7}{8} = 2\frac{6}{8}$ .
- Choice A is correct.** (4.MD.6) Whenever an angle measures exactly  $90^\circ$ , we call it a right angle. It’s one of the most important angles we measure because it appears everywhere—in book corners, window frames, and the letter L. This angle aligns perfectly with  $90^\circ$ , so the answer is right angle.
- Choice D is correct.** (4.NBT.5) Distribute and add:  $26 \times (10 + 2) = 260 + 52 = 312$  tiles.
- Choice A is correct.** (4.NF.3) The student added the denominators by mistake:  $4 + 4 = 8$ . That’s the trap! With like denominators, keep it the same. Correct:  $2 + 3 = 5$  numerators, same denominator gives  $\frac{5}{4}$ , not  $\frac{5}{8}$ .
- Choice A is correct.** (4.NF.4) Elena has 2 ropes, each  $\frac{3}{4}$  meter long. Multiply:  $2 \times \frac{3}{4} = \frac{2 \times 3}{4} = \frac{6}{4} = 1\frac{2}{4}$  meters. The answer is  $1\frac{2}{4}$  or  $1\frac{1}{2}$  meters.
- Choice B is correct.** (4.MD.7) The pie chart shows three slices. Add their angle measures:  $65^\circ + 55^\circ + 60^\circ = 180^\circ$ .
- Choice C is correct.** (4.MD.4) The smallest measurement is  $\frac{2}{8}$  and the largest is  $\frac{6}{8}$ . The range is  $\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$ .
- Choice C is correct.** (4.NBT.6) Divide:  $7 \div 9 = 0$  r7, bring down the 6 to get  $76 \div 9 = 8$  r4, bring down the 2 to get  $42 \div 9 = 4$  r6. The remainder is 6.
- Choice B is correct.** (4.G.1) A line segment is just a straight connection between two points with no arrows and no extra stretching. Diagram B shows this perfectly — clean and simple.
- The correct answer is A, E.** (4.NF.5) Trailing zeros don’t matter. A is true:  $0.5 = 0.50$  (both 5 tenths). E is true:  $0.3 = 0.30$  (both 3 tenths). B is false:  $0.5 \neq 0.05$ . C is false:  $0.50 \neq 0.05$ . D is false:  $0.5 \neq 0.51$ .
- Choice C is correct.** (4.NBT.1) Check each pair’s hundreds digits: 5,614 has a 6 in the hundreds place, and 2,641 also has a 6 in the hundreds place. Answer: **5,614** and **2,641**. ✓
- Choice C is correct.** (4.NF.3) The top bar is completely full (1 whole). The bottom bar is filled  $\frac{3}{4}$  of the way. Together:  $1\frac{3}{4}$ . ✓
- Choice B is correct.** (4.MD.5) The diagram shows two right angles: angle  $a$  is  $90^\circ$  (right to up), and angle  $b$  is  $90^\circ$  (up to left). Together:  $90^\circ + 90^\circ = 180^\circ$ .
- Choice A is correct.** (4.MD.1) Since 1 pound = 16 ounces, divide:  $8 \div 16 = \frac{1}{2}$  pound. The answer is  $\frac{1}{2}$  pound.
- Choice A is correct.** (4.NBT.4) The first step is to add the ones place:  $6 + 9 = 15$ . We write 5 and carry 1 to the tens place. This is  $6 + 9 = 15$  (write 5, carry 1).
- Choice C is correct.** (4.MD.5) Counting the intervals from 0 to 80 gives us  **$80^\circ$** .
- Choice B is correct.** (4.NF.4) Starting at 0, we jump 8 times, each jump being  $\frac{1}{10}$ . The final position is  $8 \times \frac{1}{10} = \frac{8}{10}$ .
- The correct answer is 2.** (4.MD.5) An angle is formed by **2** rays that share a vertex.
- Choice C is correct.** (4.MD.2) Maria runs one lap of 400 meters three times. Multiply to find the total:  $3 \times 400 = 1,200$  meters. That’s **1,200** meters in all!
- Choice D is correct.** (4.G.3) A square is perfectly balanced! Imagine folding it in half four different ways: vertically through the center, horizontally through the center, and diagonally both directions—each fold creates matching halves. The answer is **4** lines of symmetry.
- Choice C is correct.** (4.NF.3) Seven copies of  $\frac{1}{10}$  equals  $\frac{7}{10}$  (the other options). But choice C has seven copies of  $\frac{1}{7}$ , which equals  $\frac{7}{7} = 1$  whole—not  $\frac{7}{10}$ . So  $\frac{1}{7} + \frac{1}{7} + \dots + \frac{1}{7}$  does NOT equal  $\frac{7}{10}$ .



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## Hi, Hero!

◇ Once there was a Grade 4 student who took 8 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

### Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

**Storyteller tip:** on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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 Storyteller

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, 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 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.

## TOPICS COVERED

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



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Encourages Independent Learning



Prepares Students for Future Success