

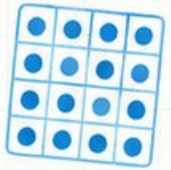
10

$$7 \times 8 = 56$$

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



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

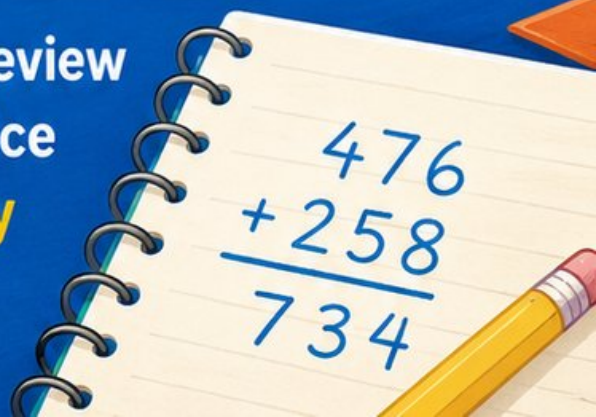


Montana MAST GRADE 4 MATH



PRACTICE TESTS

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



10 Montana MAST Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, Montana Math Explorer!

Ten steady rounds on the Treasure State math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Montana 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.



Scan me!
For more practice
& answers

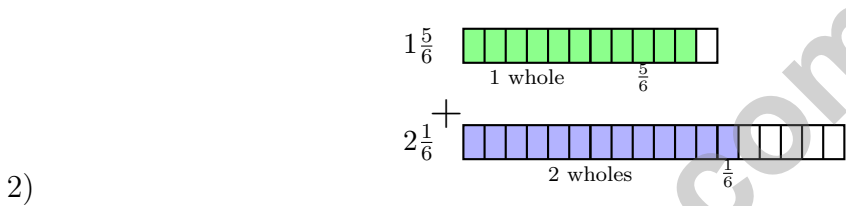
Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	25
★ Practice Test 3	_____	37
★ Practice Test 4	_____	48
★ Practice Test 5	_____	59
★ Practice Test 6	_____	70
★ Practice Test 7	_____	81
★ Practice Test 8	_____	92
★ Practice Test 9	_____	104
★ Practice Test 10	_____	115
Practice Test Answer Keys	_____	126
Practice Test Answers and Explanations	_____	132



Noah measures this angle. Is it acute, right, obtuse, or straight?

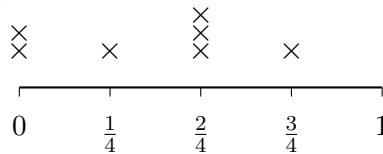
- A. Acute (less than 90 degrees) C. Obtuse (between 90 and 180 degrees)
 B. Right (exactly 90 degrees) D. Straight (exactly 180 degrees)



What is the sum shown by the bar diagrams?

- A. $3\frac{4}{6}$ C. $3\frac{3}{6}$
 B. $3\frac{5}{6}$ D. 4

3) Look at the line plot showing pencil lengths (in inches):



How many pencils measured $\frac{2}{4}$ inch?

- A. 1 C. 3
 B. 2 D. 4

4) Mia's bedroom window is a rectangle. The length is 4 feet and the width is 3 feet. What is the area of the window?

- A. 7 sq ft C. 14 sq ft
 B. 12 sq ft D. 21 sq ft

5) What is 4×328 ?

- A. 1200 C. 1312
 B. 1400 D. 1496

6) What is $\frac{4}{10} + \frac{25}{100} + \frac{10}{100}$?

7) Which fraction is equivalent to $\frac{1}{5}$ and has a denominator of 10?

- A. $\frac{1}{10}$ C. $\frac{3}{10}$
 B. $\frac{5}{10}$ D. $\frac{2}{10}$

8) Which decimal is between $\frac{2}{10}$ and $\frac{4}{10}$?

- A. 0.1 C. 0.5
 B. 0.3 D. 0.6

9) This place-value chart shows a number. Write it in expanded form:

Thousands	Hundreds	Tens	Ones
6	0	8	3

- A. $6,000 + 800 + 30$ C. $6,000 + 80 + 3$
 B. $6,000 + 800 + 3$ D. $6 + 0 + 8 + 3$



Scan me!
For more practice
& answers

10) Ava is comparing two running times. Her first race was 0.55 seconds and her second race was 0.50 seconds. Which time was faster?

- A. 0.55 seconds (first race) C. Both are the same
 B. 0.50 seconds (second race) D. Cannot tell from the information

11) A pattern starts at 3 and follows the rule “add 4.” What is the 5th term in the pattern?

- A. 15 C. 19
 B. 16 D. 23

12) A school library has 12 books about animals. It has 4 times as many books about sports. How many sports books does the library have?

- A. 16 C. 42
 B. 32 D. 48

13) An angle measures 143° . It is divided into two parts by a ray. One part measures 68° . What is the measure of the other part?

14) A pitcher holds 64 fluid ounces. How many pints is this?

- A. 2 C. 8
 B. 4 D. 16



- 1) In this diagram, the two marked lines are parallel. Which statement is correct?



- A. The distance between the lines always remains the same
 B. The lines get closer at the top
 C. The lines will meet on the right
 D. The distance between them increases
- 2) A recipe needs 32 ounces of milk. The baker has 50 ounces. After making the recipe, how many ounces are left?

- 3) A pizza box is a rectangle with a length of 14 inches and a width of 14 inches. What is the area of the box?

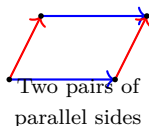
- A. 196 sq in
 B. 228 sq in
 C. 56 sq in
 D. 28 sq in
- 4) What is $5 \times \frac{2}{10}$?

- A. $\frac{7}{10}$
 B. $\frac{5}{10}$
 C. $\frac{10}{10}$ or 1
 D. $\frac{2}{50}$



Scan me!
For more practice
& answers

5) Which shape always has two pairs of parallel sides?



- A. Trapezoid
- B. Triangle
- C. Parallelogram
- D. Pentagon
- 6) Which number is less than 54,200?
- A. 54,300
- B. 54,200
- C. 55,200
- D. 54,100
- 7) A recipe requires $1\frac{1}{3}$ cups of milk. The baker already has $\frac{2}{3}$ cup. How much more milk is needed?
- A. $\frac{2}{3}$
- B. $\frac{1}{3}$
- C. $1\frac{1}{3}$
- D. $2\frac{1}{3}$
- 8) Round 3,264 to the nearest hundred.
- A. 3,200
- B. 3,000
- C. 3,260
- D. 3,300
- 9) Three students timed their sprints. Riley: 0.47 seconds. Jordan: 0.74 seconds. Casey: 0.44 seconds. Who was fastest (smallest time)?
- A. Riley (0.47 s)
- B. Jordan (0.74 s)
- C. Casey (0.44 s)
- D. Riley and Jordan tied



1) A baker divides 540 cookies equally among 6 friends. How many cookies does each friend receive?

A. 80

C. 90

B. 95

D. 85

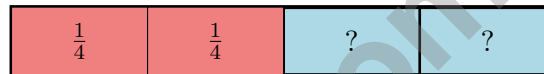
2) Multiply the numerator and denominator of $\frac{3}{5}$ by 2. What fraction do you get?

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

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

B. $\frac{5}{7}$

D. $\frac{6}{7}$



3)

One whole (4 fourths)

The bar shows $\frac{2}{4}$ is shaded. If you have 3 such bars, how much is shaded in total?

A. $\frac{6}{4}$ (or $1\frac{1}{2}$)

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

B. $\frac{2}{12}$

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

4) There are 5 red ribbons. There are 4 times as many blue ribbons. How many ribbons in total?

A. 20

C. 15

B. 9

D. 25

5) Which number rounds to 9,000 when rounded to the nearest thousand?

A. 8,499

C. 9,450

B. 8,401

D. 9,600



Scan me!
For more practice
& answers

6) A printing company prints 5 sets of pamphlets. Each set has 48 pages. Another company prints 3 sets with 65 pages each. Which company prints more pages, and by how many?

- A. First company by 15 pages C. Second company by 15 pages
 B. Equal pages D. First company by 45 pages

7) A recipe calls for 8 cups of flour. If the baker wants to make 4 batches, how many cups of flour are needed?

- A. 12 cups C. 32 cups
 B. 24 cups D. 36 cups

8) A company has 495,672 employees across all offices. How should this be written in word form?

- A. Four hundred ninety thousand, five hundred seventy-two C. Four hundred thousand, ninety-five thousand, six hundred seventy-two
 B. Forty-nine thousand, five hundred thousand, six hundred seventy-two D. Four hundred ninety-five thousand, six hundred seventy-two

9) A water jug holds $2\frac{2}{5}$ gallons. If $1\frac{1}{5}$ gallons have been spilled, how much water is in the jug now?

- A. $1\frac{1}{5}$ C. $1\frac{2}{5}$
 B. $3\frac{3}{5}$ D. $2\frac{1}{5}$

10) Which of the following is true about a rhombus that is **not** a square?

- A. It has 4 lines of symmetry C. It has 1 line of symmetry
 B. It has 2 lines of symmetry D. It has no lines of symmetry



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.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(4.MD.6)** At 110° , this angle opens wider than a right angle. Since it's between 90° and 180° , it's definitely obtuse. The answer is obtuse.
- Choice D is correct.** **(4.NF.3)** Add the wholes: $1 + 2 = 3$. Add the fractions: $\frac{5}{6} + \frac{1}{6} = \frac{6}{6} = 1$. Combine: $3 + 1 = 4$.
- Choice C is correct.** **(4.MD.4)** Look at the line plot where $\frac{2}{4}$ inch is marked. Count the X marks stacked above that tick: we see **3** marks.
- Choice B is correct.** **(4.MD.3)** Window area = $4 \times 3 = 12$ sq ft.
- Choice C is correct.** **(4.NBT.5)** Decompose 328: $4 \times (300 + 20 + 8) = 1200 + 80 + 32 = \mathbf{1312}$.
- The correct answer is** $\frac{75}{100}$. **(4.NF.5)** Convert the first fraction: $\frac{4}{10} = \frac{40}{100}$. Now add all three: $\frac{40}{100} + \frac{25}{100} + \frac{10}{100} = \frac{75}{100}$.
- Choice D is correct.** **(4.NF.1)** Multiply both numerator and denominator by 2 to get a denominator of 10: $\frac{1}{5} = \frac{1 \times 2}{5 \times 2} = \frac{2}{10}$.
- Choice B is correct.** **(4.NF.5)** Convert the fractions to decimals: $\frac{2}{10} = 0.2$ and $\frac{4}{10} = 0.4$. The decimal 0.3 fits between them.
- Choice C is correct.** **(4.NBT.2)** From the chart: thousands: 6 → 6,000, hundreds: 0 (omit), tens: 8 → 80, ones: 3 → 6,000 + 80 + 3 ✓
- Choice B is correct.** **(4.NF.5)** Smaller numbers are faster! Since $0.50 < 0.55$, the second race at 0.50 seconds is the faster time.
- Choice C is correct.** **(4.OA.4)** Start at 3 and apply “add 4” four more times: 3, 7, 11, 15, **19**. The 5th term is **19**.
- Choice D is correct.** **(4.OA.2)** “4 times as many” is a multiplication signal: $4 \times 12 = 48$. *Tip:* $4 \times 10 = 40$ and $4 \times 2 = 8$, so $40 + 8 = 48$ sports books.
- The correct answer is 75.** **(4.MD.7)** The ray splits the angle into two parts. Subtract to find the missing part: $143^\circ - 68^\circ = \mathbf{75^\circ}$.
- Choice B is correct.** **(4.MD.1)** Since 1 pint = 16 fluid ounces, divide: $64 \div 16 = 4$ pints. The answer is **4** pints.
- Choice C is correct.** **(4.MD.5)** An angle that is neither acute nor obtuse must be either a right angle (90 degrees) or a straight angle (180 degrees).
- The correct answer is A, C.** **(4.G.1)** Angle 1 opens just a little (about 35°), making it acute. Angle 2 has that perfect right angle marker, so it's 90° . They're definitely not equal to each other!
- Choice A is correct.** **(4.NF.4)** Four fifths: $4 \times \frac{1}{5} = \frac{4}{5}$.
- Choice C is correct.** **(4.MD.5)** A three-quarter turn is $\frac{3}{4}$ of the full circle: $\frac{3}{4} \times 360^\circ = \mathbf{270^\circ}$.
- Choice C is correct.** **(4.OA.4)** Factor pairs of 32: 1×32 , 2×16 , 4×8 . That gives factors 1, 2, 4, 8, 16, 32—count them up: **6** factors.
- Choice C is correct.** **(4.NF.3)** At the bake sale, cookies were sold over two time periods. Step 1: Add morning and afternoon sales: $\frac{7}{12} + \frac{3}{12} = \frac{10}{12}$. Step 2: Find what remains unsold: $\frac{12}{12} - \frac{10}{12} = \frac{2}{12}$.
- Choice D is correct.** **(4.NBT.1)** Count each block type: 5 thousands, 0 hundreds, 3 tens, 7 ones. Sum: $5,000 + 0 + 30 + 7 = \mathbf{5,037}$. ✓
- Choice C is correct.** **(4.G.2)** Perpendicular sides meet at 90-degree angles. A rectangle has all adjacent sides perpendicular to each other, creating four right angles. The answer is **C**.
- Choice C is correct.** **(4.MD.2)** Each container holds 2 kilograms of rice. With 7 containers, multiply: $2 \times 7 = 14$ kg. The total is **14** kilograms.
- The correct answer is 9,690.** **(4.NBT.4)** Add from right to left: ones $4 + 6 = 10$ (write 0, carry 1), tens $3 + 5 + 1 = 9$, hundreds $2 + 4 = 6$, thousands $6 + 3 = 9$. The sum is **9,690**.
- Choice C is correct.** **(4.NBT.3)** We're rounding to the nearest ten thousand. Look at the thousands digit: 9. Since $9 \geq 5$, we round UP! The ten thousands digit changes from 3 to 4, giving us **40,000**. ✓
- Choice B is correct.** **(4.NF.1)** All have numerator 5. Smaller denominators give bigger pieces. Order by denominator size: $6 < 8 < 10$, so $\frac{5}{6} > \frac{5}{8} > \frac{5}{10}$.
- Choice B is correct.** **(4.NF.4)** Each portion is worth $\frac{1}{12}$ of the cake. With 6 portions, we have $6 \times \frac{1}{12} = \frac{6}{12}$ of the cake.



Math Detective at Work

Hi, Math Detective!

◇ You did such a great job! You finished 10 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Test Preparation

★ **CONFIDENCE IN MATH.
SUCCESS FOR LIFE.**

WHAT STUDENTS WILL GAIN:



Stronger Concepts

Reinforce key Grade 4 math skills and build a solid foundation.



Better Problem Solving

Develop critical thinking and solve problems with confidence.



Test Confidence

Familiarize with test formats and reduce exam stress.



Track Progress

Measure improvement and focus on areas that matter.



Achieve Success

Build the skills and confidence to reach higher goals.

TOPICS COVERED:

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



Visit testinar.com/math4 for more Grade 4 math resources and practice materials!

MORE PRACTICE. GREATER RESULTS.

Give your child the tools they need to succeed in math and beyond!



A COMPLETE PRACTICE EXPERIENCE TO HELP STUDENTS THRIVE!



Builds Confidence Through Practice



Strengthens Critical Thinking & Problem-Solving



Prepares for Tests & Future Success