

7

Montana

MAST

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$



7 Montana MAST Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Treasure State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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

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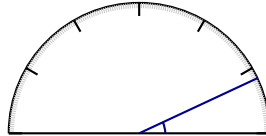
1) Which number rounds to 80,000 when rounded to the nearest ten thousand?

A. 79,999

C. 85,001

B. 85,000

D. 74,999



2)

What is the measure of the angle shown?

A. 15 degrees

C. 25 degrees

B. 20 degrees

D. 30 degrees

3) Where should $\frac{2}{6}$ be placed on the number line?



A. At 0

C. At $\frac{1}{3}$

B. Between 0 and $\frac{1}{3}$

D. Between $\frac{1}{3}$ and $\frac{2}{3}$

4) During lunch, the cafeteria used 6 gallons of milk on Monday and 8 gallons on Tuesday. How many gallons did they use in total?

A. 2 gallons

C. 14 gallons

B. 8 gallons

D. 48 gallons



5) Which list shows only multiples of $\frac{1}{4}$?

A. $\frac{1}{2}, \frac{3}{5}, \frac{1}{4}$

C. $\frac{1}{4}, \frac{2}{8}, \frac{1}{12}$

B. $\frac{2}{4}, \frac{1}{4}, \frac{3}{4}$

D. $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}$

6) Use the table to compare the two six-digit numbers:

	100,000s	10,000s	1,000s	100s	10s	1s
Number X	3	2	1	9	4	7
Number Y	3	2	2	0	1	5

Which statement is true?

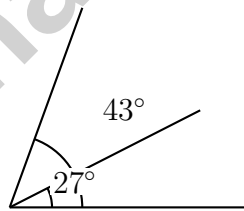
A. $321,947 > 322,015$

C. $321,947 = 322,015$

B. Cannot determine without more digits

D. $321,947 < 322,015$

7) An angle is formed by three rays meeting at a point. The first ray creates an angle of 27° , the second creates 43° , and together these form a larger angle. What is this larger angle measure?



A. 70°

C. 90°

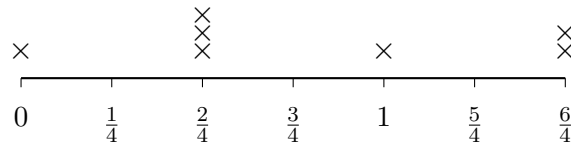
B. 16°

D. 100°



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8) A line plot shows fourths:



How many measurements are greater than $\frac{2}{4}$ inch?

- A. 2
- B. 3
- C. 4
- D. 5

9) Look at the table below. What is the rule for the pattern?

Input	1	2	3	4
Output	5	10	15	20

- A. Divide by 2
- B. Add 4
- C. Multiply by 4 then add 1
- D. Multiply by 5

10) Simplify $\frac{5}{10}$ by dividing both numerator and denominator by 5. What fraction do you get?

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

11) Olivia drives 6 hours each day for 15 days. If she drives 65 miles each hour, how far does she drive per day?

- A. 390 miles
- B. 330 miles
- C. 180 miles
- D. 450 miles

1) What is the measure of an angle drawn at 75° ?

2) The letter *H* has how many lines of symmetry?

A. 0

C. 2

B. 1

D. 4

3) Which statement is true?

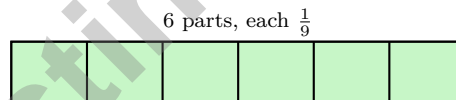
A. $0.6 > 0.68$

C. $0.6 = 0.68$

B. $0.6 < 0.68$

D. 0.68 is smaller than 0.6

4) A fraction bar has 6 equal parts. If each part is $\frac{1}{9}$, what is the whole bar?



A. $\frac{6}{9}$

C. $\frac{6}{54}$

B. $\frac{1}{9}$

D. $\frac{9}{6}$

5) What does $\frac{10}{100}$ equal?

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

C. $\frac{0}{100}$

B. $\frac{1}{10}$

D. $\frac{100}{100}$



6) A delivery truck carries 25 boxes. Each box weighs 8 pounds. What is the total weight in ounces?

A. 200 ounces

C. 3,200 ounces

B. 800 ounces

D. 6,400 ounces

7) Which fraction is equivalent to $\frac{10}{12}$ and in simplest form?

A. $\frac{5}{6}$

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

B. $\frac{5}{12}$

D. $\frac{20}{24}$

8) Which expression shows the number 5,803 broken into place values?

A. $(5 \times 1,000) + (8 \times 10) + (3 \times 1)$

C. $(5 \times 100) + (8 \times 100) + (3 \times 1)$

B. $(8 \times 1,000) + (5 \times 100) + (3 \times 1)$

D. $(5 \times 1,000) + (8 \times 100) + (3 \times 1)$

9)



The number line shows 3 jumps of $\frac{1}{3}$ each. What multiplication does this show?

A. $3 \times \frac{1}{3} = 1$

C. $3 \times \frac{2}{3} = 2$

B. $3 \times \frac{1}{3} = 3$

D. $3 \times 1 = 3$

10) How many 45° angles fit into a full circle?

A. 4

C. 8

B. 6

D. 12



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1) Which number is a multiple of 7?

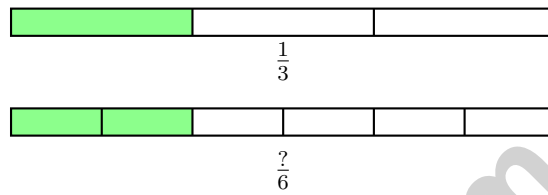
A. 45

C. 52

B. 60

D. 49

2) Look at the two fraction bars. Both bars are the same length.



What number should replace the question mark?

A. 1

C. 3

B. 4

D. 2

3) Find $\frac{5}{7} + \frac{3}{7}$ as a mixed number.

4) 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



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.NBT.3)** In option A (79,999), the thousands digit is $9 \geq 5$, so round the ten thousands digit UP from 7 to 8, giving **80,000** ✓.
- Choice C is correct.** **(4.MD.6)** The ray points to the 25° mark on the protractor. Since 25° is much less than 90° , this is a small acute angle. The answer is **25** degrees.
- Choice C is correct.** **(4.NF.1)** First, simplify: $\frac{2}{6} = \frac{1}{3}$ (divide both by 2). So $\frac{2}{6}$ lands exactly at $\frac{1}{3}$ on the number line.
- Choice C is correct.** **(4.MD.2)** The cafeteria used 6 gallons on Monday and 8 gallons on Tuesday. Add them: $6 + 8 = 14$ gallons. They used **14** gallons in total.
- Choice B is correct.** **(4.NF.4)** All count by fourths: $2 \times \frac{1}{4} = \frac{2}{4}$, $1 \times \frac{1}{4} = \frac{1}{4}$, and $3 \times \frac{1}{4} = \frac{3}{4}$.
- Choice D is correct.** **(4.NBT.2)** The hundred-thousands and ten-thousands match. Thousands digits: $1 < 2$, so Number X is less ✓.
- Choice A is correct.** **(4.MD.7)** Three rays meet at a point. The first two rays form an angle by adding: $27^\circ + 43^\circ = \mathbf{70^\circ}$.
- Choice B is correct.** **(4.MD.4)** Count X marks for measurements greater than $\frac{2}{4}$ inch. At $\frac{4}{4}$ inch: 1 mark. At $\frac{6}{4}$ inch: 2 marks. Total: $1 + 2 = \mathbf{3}$ marks.
- Choice D is correct.** **(4.OA.4)** Check the rule: $1 \times 5 = 5$, $2 \times 5 = 10$, $3 \times 5 = 15$, $4 \times 5 = 20$. The rule is “multiply by 5”. ✓
- Choice A is correct.** **(4.NF.1)** Divide both numerator and denominator by 5: $\frac{5}{10} = \frac{5 \div 5}{10 \div 5} = \frac{1}{2}$.
- Choice A is correct.** **(4.NBT.5)** Multiply by parts: $6 \times (60 + 5) = 360 + 30 = \mathbf{390}$ miles per day.
- Choice D is correct.** **(4.NBT.1)** From the chart, the digit 5 is in the hundreds place. If moved to the thousands place, its value becomes $5 \times 1,000 = 5,000$. Answer: The **5**. ✓
- The correct answer is 65.** **(4.MD.5)** An angle turning through 65 one-degree angles has a measure of **65°** .
- The correct answer is B, C.** **(4.G.2)** For statements about rectangles: B is correct because opposite sides in a rectangle are always equal in length. C is correct because all four angles in a rectangle measure 90 degrees. Statement A is false (only opposite sides must be equal, not all four). Statement D is false (rectangles have two pairs of parallel sides, not one). Statement E is false (rectangles have parallel sides). The answer is B and C.
- The correct answer is 77° .** **(4.MD.5)** The label gives the angle measure: **77°** .
- Choice A is correct.** **(4.G.3)** This square shows all four lines of symmetry: a vertical line down the middle, a horizontal line across the middle, and both diagonal lines corner-to-corner. Each one divides the square into two perfect matching halves! The answer is Yes, all are correct.
- Choice A is correct.** **(4.G.1)** Look at the diagram: point B sits right in the middle between A and C. Since B is between them, it's definitely on segment AC.
- Choice D is correct.** **(4.NBT.4)** Add from ones: $5 + 6 = 11$ (write 1, carry 1), $4 + 5 + 1 = 10$ (write 0, carry 1), $3 + 4 + 1 = 8$, $2 + 3 = 5$, $1 + 2 = 3$. The sum is **35,801**.
- Choice B is correct.** **(4.MD.1)** Since 1 meter = 100 centimeters, multiply: $3 \times 100 = 300$ cm. The answer is **300** cm.
- Choice B is correct.** **(4.NF.4)** James eats $\frac{1}{8}$ of the pie each day for 5 days. We multiply: $5 \times \frac{1}{8} = \frac{5}{8}$ of the pie.
- Choice A is correct.** **(4.NF.3)** The rope is colored with red, yellow, and blue sections shown in the picture. Step 1: Add red and yellow: $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$. Step 2: Blue is the remainder: $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$.
- The correct answer is 9.** **(4.NF.4)** The numerator 9 tells us how many unit fractions. Since the unit fraction is $\frac{1}{10}$, we have $9 \times \frac{1}{10} = \frac{9}{10}$.
- Choice A is correct.** **(4.NF.4)** For $3 \times \frac{1}{4}$, we need 3 copies of $\frac{1}{4}$, which equals $\frac{3}{4}$. Picture A shows one whole divided into 4 parts with 3 parts shaded. This is Picture A.
- Choice B is correct.** **(4.MD.3)** Using $P = 2\ell + 2w = 80$ with $\ell = 25$: $2(25) + 2w = 80$. Simplify: $50 + 2w = 80$, so $2w = 30$, thus $w = 15$ m.
- Choice D is correct.** **(4.NF.3)** The number line shows four arrows, each jumping $\frac{1}{4}$. Counting them: **4** jumps of $\frac{1}{4}$ equal 1 whole.
- Choice A is correct.** **(4.NBT.6)** Divide: $2 \div 5 = 0$ r2, bring down the 8 to get $28 \div 5 = 5$ r3, bring down the 0 to get $30 \div 5 = 6$, bring down the 5 to get $5 \div 5 = 1$. The quotient is **561**.



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Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 7 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Confidence Building
- ✓ 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.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

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



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Mixed Question Types



Answer Key Included