

5

Montana MAST

Standards-Aligned Review with
Mixed Practice and Answer Key

A+

5 Montana MAST Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five 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.

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Welcome, Montana Math Explorer!

Five steady rounds on the Treasure State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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) Noah's plant is 0.6 meters tall. Which fraction shows this height?

A. $\frac{6}{100}$ meters

B. $\frac{6}{10}$ meters

C. $\frac{60}{10}$ meters

D. $\frac{600}{10}$ meters

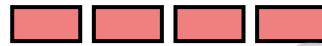
2) A reading challenge requires finishing $\frac{9}{12}$ of a book this week and $\frac{2}{12}$ next week. After both weeks, how much of the book is left?

A. $\frac{1}{12}$

B. $\frac{11}{12}$

C. $\frac{7}{12}$

D. $\frac{12}{12}$



4 pieces, each $\frac{1}{2}$ pound

3)

Each piece above weighs $\frac{1}{2}$ pound. What is the total weight of all 4 pieces?

4) A bake sale sells 6 trays of cupcakes. Each tray has 24 cupcakes. They also have 18 leftover cupcakes from yesterday. How many cupcakes do they have in total?

A. 144

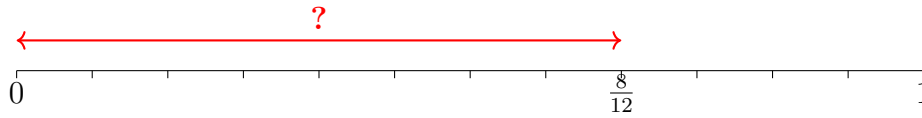
B. 140

C. 156

D. 162



9) A number line shows equal hops of $\frac{1}{12}$. How many hops reach $\frac{8}{12}$?

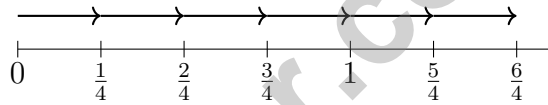


- A. 4 hops
- B. 6 hops
- C. 8 hops
- D. 12 hops

10) Which pattern shows all multiples of 4?

- A. 4, 8, 10, 16, 20
- B. 2, 4, 6, 8, 10
- C. 4, 8, 12, 16, 20
- D. 3, 6, 9, 12, 15

11) Use the number line to find $6 \times \frac{1}{4}$.



- A. $\frac{1}{4}$
- B. $\frac{6}{4}$ or $1\frac{1}{2}$
- C. $\frac{6}{24}$
- D. 2

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

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

1) Which is greater?

A. 10,203

C. 10,023

B. 10,232

D. 10,302

2) Is 19 prime or composite?

A. Both

C. Neither

B. Composite

D. Prime

3) Maya has a ribbon 11 inches long cut into 11 equal pieces. She uses 6 pieces. What fraction of the ribbon does she use as a sum of unit fractions?

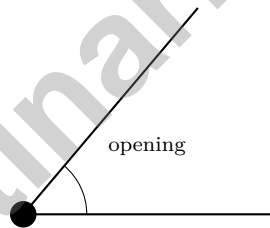
A. 6 copies of $\frac{1}{11}$

C. 6 copies of $\frac{1}{6}$

B. 11 copies of $\frac{1}{11}$

D. 5 copies of $\frac{1}{11}$

4)



The angle shown has a small opening. If we increased the opening to 130 degrees, would it be acute, right, obtuse, or straight?

A. Acute

C. Obtuse

B. Right

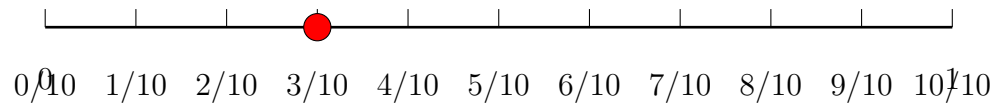
D. Straight



5) Which number rounds to 40,000 when rounded to the nearest thousand?

- A. 39,250 C. 40,499
 B. 40,750 D. 40,501

6) Look at the number line below.



What fraction is marked on the number line?

- A. $\frac{3}{100}$ C. $\frac{3}{10}$
 B. $\frac{13}{100}$ D. $\frac{10}{3}$

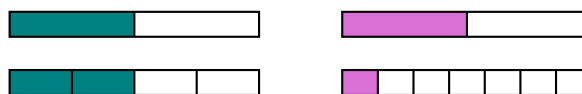
7) A carpenter measures an angle made by two boards. The angle is split by a third board into parts measuring 38° and 52° . What is the total angle measure?

- A. 14° C. 76°
 B. 90° D. 52°

8) A pattern is: 1, 4, 9, 16, 25, ... What is the next term?

- A. 30 C. 36
 B. 35 D. 40

9) Which picture shows $\frac{1}{2}$ and $\frac{2}{4}$ are equivalent?



A: $\frac{1}{2}$ and $\frac{2}{4}$

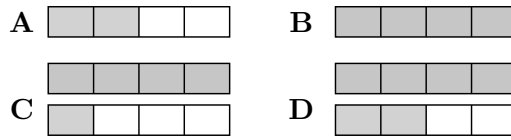
B: $\frac{1}{2}$ and $\frac{1}{7}$

- A. Picture A C. Both pictures
 B. Picture B D. Neither picture



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1) Which model shows 6 unit fractions of $\frac{1}{4}$ that equal $\frac{6}{4}$?



A. Picture A

B. Picture B

C. Picture C

D. Picture D

2) Which fraction is greater than 1?

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

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

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

D. $\frac{7}{8}$

3) Round 23,562 to the nearest thousand.

A. 23,000

B. 20,000

C. 23,600

D. 24,000

4) How many degrees in $\frac{2}{3}$ of a full turn around a circle?

A. 180°

B. 200°

C. 240°

D. 270°

5) If an angle measures 35° , how many one-degree angles does it turn through?

A. 3.5 one-degree angles

B. 35 one-degree angles

C. 70 one-degree angles

D. 350 one-degree angles



6) Which describes a key difference between a square and a rhombus?

- A. A square has four sides; a rhombus does not.
- B. A square has right angles; a rhombus may not.
- C. A rhombus has parallel sides; a square does not.
- D. A square has parallel sides; a rhombus does not.

7) An art supply store has 5 paintbrush sets. It has 3 times as many markers as paintbrush sets. It also has 2 times as many colored pencils as markers. How many colored pencils does the store have?

- A. 10
- B. 15
- C. 25
- D. 30

8) Which angle is the largest?



- A. Angle X
- B. Angle Y
- C. Angle Z
- D. All are equal

9) Which number is NOT divisible by 2?

- A. 78
- B. 84
- C. 91
- D. 96

10) Triple $\frac{3}{4}$.



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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) 0.6 is the decimal form of six tenths: $0.6 = \frac{6}{10}$.
- Choice A is correct.** (4.NF.3) The reading challenge spans two weeks. Step 1: Add what's read both weeks: $\frac{9}{12} + \frac{2}{12} = \frac{11}{12}$. Step 2: Find what's left: $\frac{12}{12} - \frac{11}{12} = \frac{1}{12}$.
- The correct answer is 2.** (4.NF.4) All 4 pieces, each weighing $\frac{1}{2}$ pound, weigh $4 \times \frac{1}{2} = \frac{4}{2} = 2$ pounds total.
- Choice D is correct.** (4.OA.3) Two steps! Step 1: cupcakes from the trays: $6 \times 24 = 144$. Step 2: add the leftovers: $144 + 18 = 162$ cupcakes in total.
- Choice B is correct.** (4.MD.1) Since 1 foot = 12 inches, multiply: $2 \times 12 = 24$ inches. The answer is **24** inches.
- The correct answer is 4.** (4.G.2) By definition, a quadrilateral is a four-sided figure. The answer is **4**.
- Choice C is correct.** (4.NF.3) Option C: $8 + 3 = 11$, not 12. So $\frac{8}{10} + \frac{3}{10} = \frac{11}{10} \neq \frac{12}{10}$. C is the wrong one ✓.
- Choice C is correct.** (4.NF.3) A difference of 0 means the fractions are identical. A: $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$ (not 0). B: $\frac{6}{6} - \frac{4}{6} = \frac{2}{6}$ (not 0). C: $\frac{3}{5} - \frac{3}{5} = 0$ ✓. D: $\frac{5}{12} - \frac{7}{12} =$ negative (not 0).
- Choice C is correct.** (4.NF.3) We want to reach $\frac{8}{12}$ by hopping $\frac{1}{12}$ each time. So **8** hops get us there: $\frac{8}{12} = \underbrace{\frac{1}{12} + \frac{1}{12} + \dots + \frac{1}{12}}_{8 \text{ hops}}$.
- Choice C is correct.** (4.OA.4) Multiples of 4 are: 4, 8, 12, 16, 20, ... Check choice C: $4 \div 4 = 1$, $8 \div 4 = 2$, $12 \div 4 = 3$. All divide evenly. ✓
- Choice B is correct.** (4.NF.4) On the number line, we make 6 jumps of $\frac{1}{4}$ each, landing at $\frac{6}{4} = 1\frac{1}{2}$. So $6 \times \frac{1}{4} = 1\frac{1}{2}$. The answer is **1** $\frac{1}{2}$.
- Choice A is correct.** (4.MD.2) 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.NF.5) Trailing zeros don't change the value. Both 0.5 and 0.50 equal 5 tenths, or 50 hundredths. They're the same.
- Choice D is correct.** (4.OA.2) Marcus's 28 candles are 7 times Sylvio's amount. To find Sylvio's amount, divide: $28 \div 7 = 4$ candles.
- Choice D is correct.** (4.MD.5) A straight angle is formed when two rays point in exactly opposite directions, making a straight line.
- Choice D is correct.** (4.OA.1) "3 times as many" is a multiplication signal. Jordan has 3 groups of Alex's 7 pencils: $7 \times 3 = 21$ pencils.
- Choice A is correct.** (4.MD.7) The tree divides the angle into two parts. Subtract to find the other: $168^\circ - 86^\circ = \mathbf{82^\circ}$.
- The correct answer is A, C.** (4.NBT.4) A: $5,234 + 2,345 = 7,579$ ✓. B: $6,789 + 2,456 = 9,245$ (wrong). C: $8,123 + 1,234 = 9,357$ ✓. D: $9,000 + 3,456 = 12,456$ (wrong). E: $4,567 + 3,456 = 8,023$ (wrong). Correct answers: A and C.
- Choice A is correct.** (4.NF.1) All fractions have denominator 12, so compare numerators: $3 < 5 < 7$. The order from least to greatest is $\frac{3}{12}, \frac{5}{12}, \frac{7}{12}$.
- Choice A is correct.** (4.OA.4) A factor pair has to *multiply* to give 24. Test each: $3 \times 8 = 24$ ✓; $4 \times 5 = 20$; $5 \times 5 = 25$; $2 \times 10 = 20$. Only choice A multiplies to exactly 24.
- The correct answer is $\frac{1}{4}$.** (4.NF.1) Divide both numerator and denominator by 2: $\frac{2}{8} = \frac{2 \div 2}{8 \div 2} = \frac{1}{4}$. In simplest form, Noah ate $\frac{1}{4}$ of the sandwich.
- Choice A is correct.** (4.G.3) A slanted parallelogram leans to one side and has different side lengths next to each other. No fold line can make matching halves. The answer is **0** lines of symmetry.
- Choice A is correct.** (4.NBT.5) Break 234 into hundreds, tens, and ones: $5 \times (200 + 30 + 4) = 1000 + 150 + 20 = \mathbf{1170}$.
- Choice A is correct.** (4.MD.3) The rectangle is 5 units long and 3 units wide. Perimeter = $2(5) + 2(3) = 10 + 6 = 16$ units.
- Choice D is correct.** (4.NBT.3) We're rounding to the nearest hundred. Look at the tens digit: 5. Since $5 \geq 5$, we round UP! The hundreds digit goes from 7 to 8, giving us **8,800**. ✓



From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 5 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

Ideal for classroom use, homework, test preparation, and extra practice at home.

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Develop logical thinking and effective solution strategies.



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Measure growth across multiple practice tests.



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Reinforce important skills aligned with grade-level standards.



Prepare for Success

Build the confidence needed to do your best on test day.

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- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
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- ✓ Word Problems
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