

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

Montana MAST

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



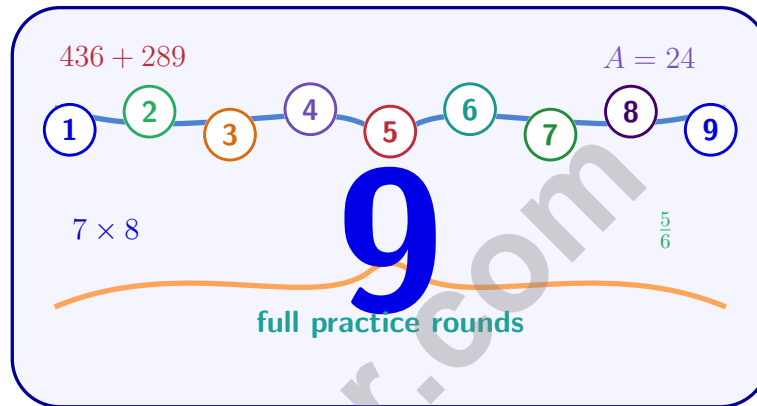
$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 Montana MAST Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine 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!

Nine steady rounds on the Treasure State math route

This book gives you nine 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?

Nine tests, 270 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.
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.

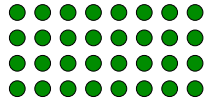


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Classroom A



Classroom B

1)

Classroom A has 8 library books. Classroom B has 4 times as many books as Classroom A. How many books does Classroom B have?

 A. 12 C. 40 B. 24 D. 32

2) Is 23 prime or composite?

 A. It depends C. Neither B. Composite D. Prime3) The area of a rectangle is found using $\text{length} \times \text{width}$. If the length is 18 and width is 16, what is the area? A. 208 C. 244 B. 324 D. 2884) Olivia made 4 groups, with each group containing $\frac{1}{3}$ of a candy bar. How much candy does she have in total? A. $\frac{4}{3}$ C. $\frac{3}{4}$ B. $\frac{1}{12}$ D. $\frac{4}{12}$ 

5) A baker had $3\frac{3}{5}$ cups of sugar. She used $2\frac{1}{5}$ cups for a cake. How much sugar is left?

A. $1\frac{2}{5}$

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

B. $1\frac{1}{5}$

D. $2\frac{2}{5}$

6) How many rays form the sides of an angle?

A. 1 ray

C. 3 rays

B. 2 rays

D. 4 rays

7) A school has 4 classrooms. Each classroom has 28 students. The principal needs to divide all students into groups of 7 for a field trip. How many groups will there be?

A. 7

C. 4

B. 32

D. 16

8) The zoo needs to divide 1,456 pounds of animal feed equally among 8 animals. How many pounds does each animal get?

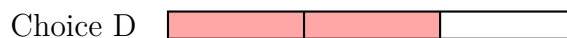
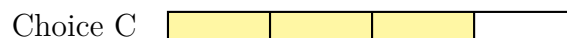
A. 172

C. 182

B. 192

D. 188

9) Which fraction bar shows $\frac{4}{6}$ as a sum of unit fractions?



A. 4 parts shaded, 6 total

C. 3 parts shaded, 4 total

B. 3 parts shaded, 3 total

D. 2 parts shaded, 3 total



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10) Which comparison symbol is correct?

A. $\frac{1}{5} > \frac{1}{3}$

B. $\frac{1}{5} < \frac{1}{3}$

C. $\frac{1}{5} = \frac{1}{3}$

D. $\frac{5}{1} < \frac{3}{1}$

11) A farmer has 23,456 kg of grain. He uses 5,678 kg. How much grain is left?

A. 17,778 kg

B. 17,878 kg

C. 18,778 kg

D. 17,678 kg

12) Which of the following equals $\frac{11}{12}$?

A. $11 + \frac{1}{12}$

B. $11 \times \frac{1}{12}$

C. $\frac{1}{11} \times 12$

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

13) A straight angle of 180° is divided into five equal parts. What is the measure of each part?

14) By what number do you multiply both the numerator and denominator of $\frac{1}{6}$ to get $\frac{2}{12}$?

A. 1

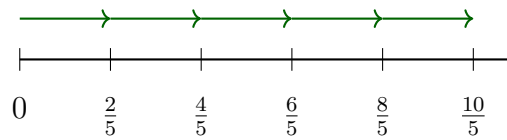
B. 6

C. 3

D. 2



- 1) A number line shows hops of $\frac{2}{5}$. How many hops to reach $\frac{10}{5}$?



- A. 2 hops C. 4 hops
 B. 3 hops D. 5 hops
- 2) What is $8,432 - 3,657$?
- A. 4,225 C. 5,225
 B. 5,775 D. 4,775
- 3) What is the value of the thousands digit in 67,290?
- A. 7 C. 700
 B. 70 D. 7,000
- 4) A pattern starts at 2 and follows the rule add 5. What is the fifth term?

- 5) Look at the place-value table and find the missing decimal.

Tenths	Hundredths	Decimal
5	8	?

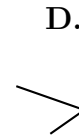
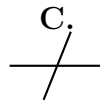
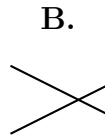
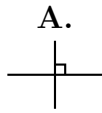
What is the decimal?

- A. 0.58 C. 5.8
 B. 0.85 D. 58.0



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6) Which diagram shows two perpendicular lines?



A. Diagram A

C. Diagram C

B. Diagram B

D. Diagram D

7) A rectangle has a length of 12 m and a width of 7 m. What is its perimeter?

A. 19 m

C. 84 m

B. 38 m

D. 76 m

8) What is $\frac{5}{10} + \frac{25}{100}$?

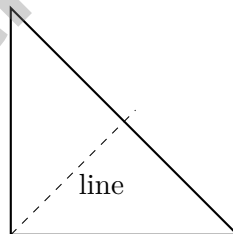
A. $\frac{30}{100}$

C. $\frac{5}{25}$

B. $\frac{75}{100}$

D. $\frac{30}{110}$

9) This is a right isosceles triangle (two equal legs). How many lines of symmetry does it have?



A. 0 lines

C. 2 lines

B. 1 line

D. 3 lines



1) Which is true?

A. $\frac{4}{10} > \frac{8}{10}$
 B. $\frac{4}{10} = \frac{8}{10}$

C. $\frac{4}{10} < \frac{8}{10}$
 D. Cannot compare

2) A rectangle's width is 7 feet. Its length is 2 times as long as its width. What is the length?

A. 5 feet
 B. 9 feet

C. 3.5 feet
 D. 14 feet

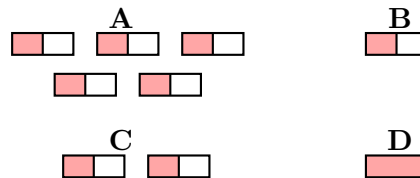
3) Find $3\frac{2}{4} + 1\frac{3}{4}$.

4) What is $4,205 \div 5$?

A. 841
 B. 831

C. 821
 D. 851

5) Which bar model represents $5 \times \frac{1}{2}$?



A. Top-left picture
 B. Top-right picture

C. Bottom-left picture
 D. Bottom-right picture



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6) Round 33,666 to the nearest hundred.

A. 33,600

C. 33,670

B. 34,000

D. 33,700

7) What is 24×36 ?

A. 84

C. 864

B. 144

D. 924

8) The space outside an angle is called:

A. the interior

C. the vertex

B. the exterior

D. a side

9) A store has 200 books. They receive 35 more books. Then they sell 78 books. How many books do they have left?

10) Sophia runs laps on a track. Each lap is $\frac{1}{4}$ mile. If she completes 5 laps, how many miles does she run?

A. $\frac{5}{4}$ miles (or $1\frac{1}{4}$ miles)

C. $\frac{5}{20}$ mile

B. $\frac{1}{20}$ mile

D. 5 miles



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 D is correct.** **(4.OA.2)** Classroom B's group has 4 rows of 8 books—"4 times as many." Multiply: $4 \times 8 = 32$ books.
- Choice D is correct.** **(4.OA.4)** Test the small primes: 23 is odd; digit sum $2 + 3 = 5$ (not $\div 3$); doesn't end in 0 or 5; $7 \times 3 = 21$, $7 \times 4 = 28$, no 7. So 23 has only factors 1 and itself—**prime**.
- Choice D is correct.** **(4.NBT.5)** Split and calculate: $18 \times (10 + 6) = 180 + 108 = 288$ square units.
- Choice A is correct.** **(4.NF.4)** Four groups of $\frac{1}{3}$ each: $4 \times \frac{1}{3} = \frac{4}{3}$, which is $1\frac{1}{3}$ candy bars.
- Choice A is correct.** **(4.NF.3)** The baker used some sugar for the cake. Subtract the amount used from the starting amount: $3\frac{3}{5} - 2\frac{1}{5} = 1\frac{2}{5}$ cups of sugar left.
- Choice B is correct.** **(4.MD.5)** An angle always has exactly **2** rays that form its sides.
- Choice D is correct.** **(4.OA.3)** Two steps! Step 1: find the total students. $4 \times 28 = 112$ students. Step 2: equal groups of 7 means divide: $112 \div 7 = 16$ groups.
- Choice C is correct.** **(4.NBT.6)** Divide: $14 \div 8 = 1$ r6, bring down the 5 to get $65 \div 8 = 8$ r1, bring down the 6 to get $16 \div 8 = 2$. Each animal receives **182** pounds of feed.
- Choice A is correct.** **(4.NF.3)** In the fraction bar, we have 4 shaded parts out of 6 equal parts. Each piece is a unit fraction $\frac{1}{6}$. So we have $\frac{4}{6} = \underbrace{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}}_{4 \text{ copies}}$.
- Choice B is correct.** **(4.NF.1)** All four fractions have numerator 1. Bigger denominators = smaller pieces. So fifths are smaller than thirds: $\frac{1}{5} < \frac{1}{3}$.
- Choice A is correct.** **(4.NBT.4)** The farmer uses some grain, so we subtract. $23,456 - 5,678 = 17,778$ kg left.
- Choice B is correct.** **(4.NF.4)** The fraction $\frac{11}{12}$ tells us the numerator is 11 and the unit fraction is $\frac{1}{12}$. So we have 11 copies of $\frac{1}{12}$, or $11 \times \frac{1}{12}$.
- The correct answer is 36.** **(4.MD.7)** Split the straight angle equally into five parts: $180^\circ \div 5 = 36^\circ$.
- Choice D is correct.** **(4.NF.1)** The denominator goes from 6 to 12—that's multiply by 2. Multiply the numerator by 2 also: $\frac{1}{6} = \frac{1 \times 2}{6 \times 2} = \frac{2}{12}$.
- The correct answer is A, C.** **(4.MD.5)** Statement A is correct: **72** one-degree angles measure **72°**. Statement C is correct: a full circle measures **360°** with **360** one-degree angles. Statement B is wrong (straight angle is 180°). Statement D is wrong (30 one-degree angles is 30°, not 60°). Statement E is wrong (right angle is 90°, not 45°).
- The correct answer is 6.** **(4.MD.4)** Add up all the X marks: $1 + 2 + 3 = 6$ X marks in total.
- Choice B is correct.** **(4.NF.4)** Tommy eats $\frac{1}{4}$ pizza 6 times a week. Multiply: $6 \times \frac{1}{4} = \frac{6 \times 1}{4} = \frac{6}{4} = 1\frac{1}{2}$. The answer is $1\frac{1}{2}$ of a pizza.
- Choice D is correct.** **(4.OA.1)** "7 times as many" is a multiplication clue: $2 \times 7 = 14$ stickers.
- Choice A is correct.** **(4.MD.6)** A protractor is the special tool we use to measure angles in whole-number degrees. The ruler measures length and the compass draws circles, but only the protractor shows us how many degrees are in an angle.
- Choice D is correct.** **(4.NBT.2)** Step 1: $300,000 + 20,000 + 5,000 = 325,000$. Step 2: $325,000 + 600 + 30 + 2 = 325,632$ ✓
- Choice D is correct.** **(4.G.3)** A regular hexagon (6 equal sides) is balanced six ways. Three lines pass through opposite corners, and three pass through the middle of opposite sides. The answer is **6** lines of symmetry.
- Choice B is correct.** **(4.NF.5)** Multiply both the numerator and denominator by 10: $\frac{5}{10} \times \frac{10}{10} = \frac{50}{100}$.
- Choice B is correct.** **(4.G.1)** A ray always starts at a definite point. This one starts at *A*, goes through *B*, and keeps going forever in that same direction.
- Choice D is correct.** **(4.NBT.3)** We're rounding to the nearest ten. Look at the ones digit: 7. Since $7 \geq 5$, we round UP! The tens digit goes from 0 to 1, giving us **4,610**. ✓
- Choice D is correct.** **(4.NF.3)** Option D has five pieces: $\frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12}$. Count: $2 + 2 + 2 + 2 + 2 = 10$, so we get $\frac{10}{12}$ ✓.



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A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 9 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 9 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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

Jay Daie

Your Math Friend

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

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SUCCESS FOR LIFE.**

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Develop logical thinking and effective solution strategies.



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Track Progress

Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

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- ✓ 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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