

3

Montana MAST

GRADE 4

MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**5 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
QUESTIONS**



**ANSWER KEY
INCLUDED**

$$a^2 + b^2 = c^2$$

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



3 Montana MAST Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, Montana MAST strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome, Montana Math Explorer!

Three steady rounds on the Treasure State math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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.



Scan me!
For more practice
& answers

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1) Solve: $\frac{4}{6} + \frac{1}{6} = ?$

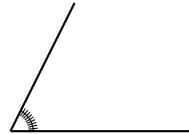
A. $\frac{5}{12}$

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

C. $\frac{4}{6}$

D. $\frac{6}{6}$ or 1

2)



This angle is marked from 0° to 63° . What is the measure?

A. 63°

B. 64°

C. 62°

D. 126°

3) What is the standard form of $400,000 + 80,000 + 3,000 + 200 + 0 + 1$?

A. 483,021

B. 483,210

C. 408,301

D. 483,201

4) Which statement matches $32 = 8 \times 4$?

A. 32 is 4 less than 8

B. 32 is 4 more than 8

C. 32 is 8 more than 4

D. 32 is 8 times as many as 4

5) Ava buys 12 packs of stickers. Each pack has 15 stickers. How many stickers does Ava have in total?

A. 27

B. 120

C. 240

D. 180



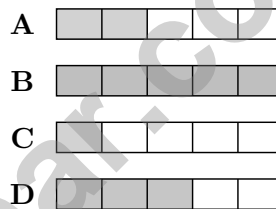
- 6) A rectangular swimming pool is 25 feet long and 15 feet wide. How many feet of rope are needed to go around the entire edge of the pool?



- 7) Is 36 a multiple of 9?

- A. Only if divisible by 4 C. Cannot tell
 B. No D. Yes

- 8) Which fraction bar correctly shows $2 \times \frac{1}{5}$?



- A. Picture A C. Picture C
 B. Picture B D. Picture D
- 9) Sam has 3 cookies. Each cookie is $\frac{2}{3}$ of a cup of flour. How much flour is in all of Sam's cookies?
- A. $\frac{6}{3}$ cup or 2 cups C. $\frac{3}{2}$ cup
 B. $\frac{2}{9}$ cup D. $\frac{2}{3}$ cup



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1) In a four-digit number, the thousands digit is 3, the hundreds digit is 4, the tens digit is 2, and the ones digit is 6. What is the number?

A. 4,236

C. 2,346

B. 6,243

D. 3,246

2) Which addition is correct?

A. $5,234 + 3,456 = 8,690$

C. $5,234 + 3,456 = 8,780$

B. $5,234 + 3,456 = 8,590$

D. $5,234 + 3,456 = 9,690$

3) A number line has 4 equal parts from 0 to 1. Which fraction represents 3 of those parts?



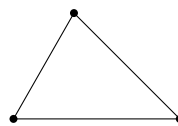
A. $\frac{4}{4}$

B. $\frac{2}{4}$

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

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

4) Look at the triangle. All three sides have different lengths. What type is it?

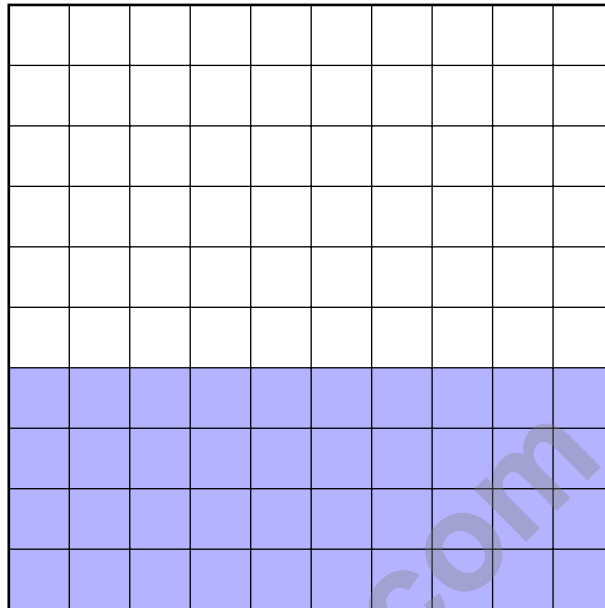


All sides have
different lengths
(no tick marks)

 A. Scalene triangle C. Equilateral triangle B. Isosceles triangle D. Acute triangle

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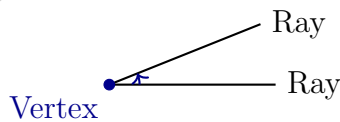
5) Look at the grid below. The shaded squares represent a fraction.



Which fraction and decimal both represent the shaded amount?

- A. $\frac{4}{10}$ and 0.04
- C. $\frac{4}{100}$ and 0.4
- B. $\frac{40}{100}$ and 0.4
- D. $\frac{40}{10}$ and 4.0

6) Look at this angle:



What type of angle is this?

- A. An acute angle
- C. An obtuse angle
- B. A right angle
- D. A straight angle

6) A library receives 5 boxes of books. Each box has 20 books. They also receive 15 loose books. Then they shelve 45 books. How many books are left to shelve?

- A. 115 C. 45
 B. 100 D. 70

7) Maya has 7 pounds of flour. How many ounces of flour does she have?

8) Sam has a strip of paper divided into 8 equal parts. He colors 5 parts. Which expression shows the fraction colored as a sum of unit fractions?

- A. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ C. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$
 B. $\frac{5}{8} + \frac{5}{8}$ D. $\frac{5}{8}$

9) Ming collected rock weights in fourths of an ounce: $\frac{1}{4}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{1}{4}$, $\frac{3}{4}$. If plotted, which weight would have the tallest stack of X marks?

- A. $\frac{1}{4}$ oz C. $\frac{3}{4}$ oz
 B. $\frac{2}{4}$ oz D. $\frac{4}{4}$ oz

10) Tyler has 540 minutes of recess time to split equally into 6 weeks. How many minutes of recess does he get each week?

- A. 80 C. 90
 B. 85 D. 95

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

- 1) **Choice B is correct.** **(4.NF.3)** With same-size sixths, combine them: $4 + 1 = 5$, so the answer is $\frac{5}{6}$.
- 2) **Choice A is correct.** **(4.MD.5)** The angle spans from 0° to the 63° mark, measuring 63° .
- 3) **Choice D is correct.** **(4.NBT.2)** Step 1: $400,000 + 80,000 + 3,000 = 483,000$. Step 2: $483,000 + 200 + 1 = 483,201$ ✓
- 4) **Choice D is correct.** **(4.OA.1)** Read $32 = 8 \times 4$ in words: “32 equals 8 groups of 4,” which is the same as “32 is 8 times as many as 4.” The other choices describe adding or subtracting, not multiplying.
- 5) **Choice D is correct.** **(4.NBT.5)** Split 12×15 using the distributive property: $12 \times (10 + 5) = 120 + 60 = \mathbf{180}$ stickers.
- 6) **The correct answer is 80 ft.** **(4.MD.3)** Rope around the pool = $2(25) + 2(15) = 50 + 30 = 80$ ft.
- 7) **Choice D is correct.** **(4.OA.4)** To check, divide: $36 \div 9 = 4$ exactly (no remainder). Since $9 \times 4 = 36$, yes—36 is a multiple of 9.
- 8) **Choice A is correct.** **(4.NF.4)** Picture A shows 5 equal parts with 2 shaded. This represents 2 out of 5 parts, or $2 \times \frac{1}{5}$.
- 9) **Choice A is correct.** **(4.NF.4)** Sam has 3 cookies, each using $\frac{2}{3}$ cup of flour. Multiply: $3 \times \frac{2}{3} = \frac{3 \times 2}{3} = \frac{6}{3} = 2$ cups. The answer is **2** cups.
- 10) **Choice D is correct.** **(4.NBT.1)** Looking at the chart, the digit in the tens place is 7. Its value is $7 \times 10 = \mathbf{70}$. ✓
- 11) **Choice D is correct.** **(4.OA.4)** Every third multiple of 4: the 3rd is 12, the 6th is 24, the 9th is 36. These are 12, 24, 36, 48, 60, ... (multiples of 12). ✓
- 12) **Choice B is correct.** **(4.MD.1)** Since 1 yard = 3 feet, divide: $50 \div 3 = 16$ remainder 2. The answer is **16** whole yards.
- 13) **Choice C is correct.** **(4.NF.1)** The denominator goes from 6 to 12 (multiply by 2). Multiply the numerator by 2 also: $\frac{3}{6} = \frac{3 \times 2}{6 \times 2} = \frac{6}{12}$.
- 14) **The correct answer is A, C.** **(4.NF.4)** A: Four runs of $\frac{3}{5}$ mile each means $4 \times \frac{3}{5}$. C: Four cookies at $\frac{3}{5}$ ounce each means $4 \times \frac{3}{5}$. B would be $3 \times$ (tripling), D is $2 \times$ (two bottles), E is division.
- 15) **Choice D is correct.** **(4.NF.3)** Subtract to find the missing addend: $5\frac{2}{5} - 2\frac{3}{5}$. Since $\frac{2}{5} < \frac{3}{5}$, regroup: $5\frac{2}{5} = 4\frac{7}{5}$. Subtract: $4\frac{7}{5} - 2\frac{3}{5} = 2\frac{4}{5}$.
- 16) **The correct answer is 3.** **(4.MD.4)** Count how many times 1 inch (which is $\frac{2}{2}$ inch) appears in our measurements: 1, 1, 1 = **3** times.
- 17) **Choice C is correct.** **(4.MD.2)** Step 1: Sugar weight: $5 \times 3 = 15$ kg. Step 2: Salt weight: $3 \times 2 = 6$ kg. Step 3: Total: $15 + 6 = 21$ kg. The total weight is **21** kg.
- 18) **Choice C is correct.** **(4.NF.3)** Start at 0 and make three jumps of $\frac{1}{4}$ each. After three jumps: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$.
- 19) **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 changes from 4 to 5, giving us **31,500**. ✓
- 20) **Choice A is correct.** **(4.MD.5)** Compare the fractions: $\frac{1}{2} = 0.5$, $\frac{1}{3} \approx 0.33$, $\frac{2}{5} = 0.4$, $\frac{1}{4} = 0.25$. The largest fraction is $\frac{1}{2}$.
- 21) **Choice A is correct.** **(4.NF.5)** Compare the tenths place first: $0 < 2 < 7$. For the two decimals with tenths = 7, compare hundredths: $0 < 2$, so $0.70 < 0.72$.
- 22) **Choice B is correct.** **(4.MD.5)** The angle shown has a perfect square corner, which is a right angle.
- 23) **Choice D is correct.** **(4.OA.2)** “2 times as many” is a multiplication clue. Noah’s sister has 2 groups of 7 crayons: $2 \times 7 = 14$ crayons.
- 24) **Choice C is correct.** **(4.NBT.6)** Divide: $37 \div 5 = 7$ r2, bring down the 8 to get $28 \div 5 = 5$ r3, bring down the 0 to get $30 \div 5 = 6$. The orchard makes **756** full crates.
- 25) **Choice A is correct.** **(4.MD.7)** The angle is split into two parts. Subtract to find the missing one: $165^\circ - 92^\circ = \mathbf{73^\circ}$.
- 26) **Choice B is correct.** **(4.G.2)** The arrows clearly indicate one pair of parallel sides. A quadrilateral with exactly one pair of parallel sides is defined as a trapezoid. The answer is **B**.
- 27) **The correct answer is 0.** **(4.G.3)** If a letter has no line of symmetry, the number of lines is zero, so the answer is **0**.
- 28) **Choice D is correct.** **(4.OA.3)** Two steps! Step 1: take away the sheep she sold: $80 - 25 = 55$. Step 2: add the new sheep: $55 + 30 = 85$ sheep.



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Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 3 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 3 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills 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 Building

★ CONFIDENCE TODAY.
SUCCESS TOMORROW!

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.



Prepare for Success

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

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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