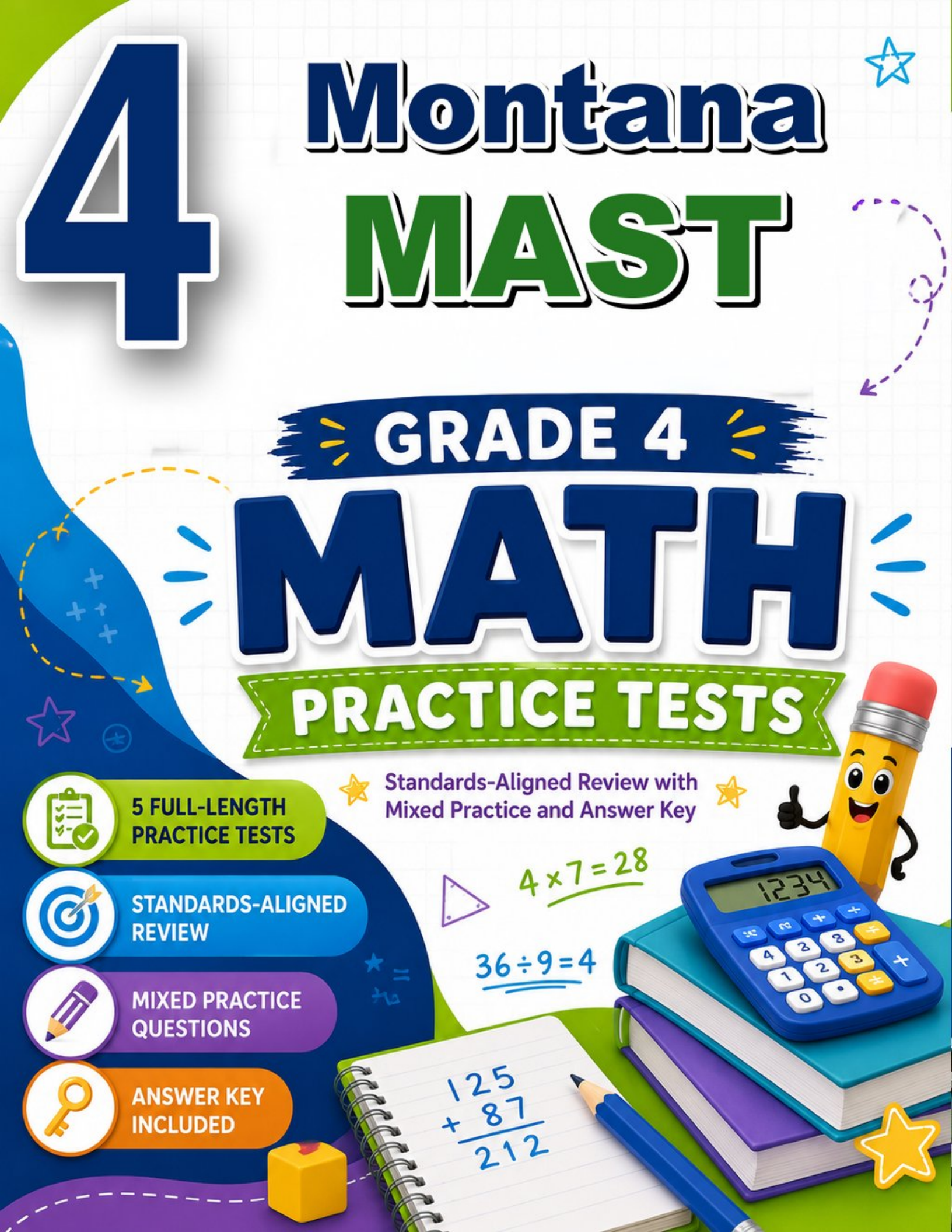
# 4 Montana MAST

## 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



# 4 Montana MAST Grade 4 Math Practice Tests

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




**Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.**

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# Welcome, Montana Math Explorer!

Four steady rounds on the Treasure State math route

This book gives you four 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.

# 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?

Four tests, 120 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 2–4 | Skill-building rounds with fractions, measurement, area, data, and two-step problems. |
| Tests 2–4 | 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.

# Table of Contents

1) Three friends shared a candy bar. Alex ate $\frac{1}{3}$, Blake ate $\frac{2}{5}$, and Chloe ate $\frac{1}{4}$. Who ate the most?

☐ A. Alex
☐ B. Blake
☐ C. Chloe
☐ D. Alex and Blake ate the same

2) A container of juice has $\frac{9}{10}$ liter. After serving some drinks, $\frac{4}{10}$ liter is left. How much juice was served?

☐ A. $\frac{5}{10}$
☐ B. $\frac{13}{10}$
☐ C. $\frac{4}{10}$
☐ D. $\frac{1}{10}$

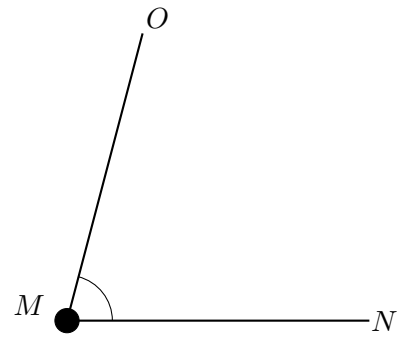
3) Two rays form an angle with a measure of 80°. If one part of the angle is 32°, what is the measure of the other part?

☐ A. 48°
☐ B. 50°
☐ C. 112°
☐ D. 35°

4) A rectangular yard is 20 feet long and 15 feet wide. How much fencing is needed to go around it?

☐ A. 35 ft
☐ B. 70 ft
☐ C. 300 ft
☐ D. 140 ft

5)




The angle $\angle NMO$ is shown. How would you name this angle differently?

☐ A. $\angle NOM$
☐ B. $\angle ONM$
☐ C. $\angle OMN$
☐ D. $\angle MOM$

6) A recipe calls for $\frac{3}{4}$ cup of sugar. If Dylan is making 5 batches, how much sugar does he need?

☐ A. $\frac{3}{20}$ cup
☐ B. $\frac{8}{4}$ cups
☐ C. $\frac{15}{20}$ cup
☐ D. $\frac{15}{4}$ cups or $3\frac{3}{4}$ cups

7) A toy store has 100 action figures. A craft store has 2 times as many action figures. How many action figures does the craft store have?

☐ A. 102
☐ B. 150
☐ C. 300
☐ D. 200

8) A paper strip is divided into 3 equal parts. All parts are colored. Show this as a sum of unit fractions.

**All 3 parts colored**

☐ A. $\frac{1}{3}$
☐ B. $\frac{1}{3}+\frac{1}{3}+\frac{1}{3}$
☐ C. $\frac{3}{1}$
☐ D. $\frac{2}{3}$

9) A full turn around a circle measures how many degrees?

☐ A. 90°
☐ B. 180°
☐ C. 270°
☐ D. 360°

10) A coach has 3 teams. Team A has 18 players, Team B has 22 players, and Team C has 20 players. They want to divide all players equally into 8 groups. How many players are in each group, and how many players are left over?

☐ A. 15
☐ B. 8
☐ C. 6 remainder 2
☐ D. 7 remainder 4

11) A student says $0.5 > 0.45$ because 5 is greater than 45. Is this reasoning correct?

☐ A. Yes, the student is correct
☐ B. No, you must compare place values, not digits
☐ C. No, $0.45 > 0.5$
☐ D. The comparison cannot be made

12) Find $5 \times \frac{1}{8}$.

1) Isabella baked $4\frac{1}{2}$ trays of cookies. She sold $1\frac{1}{2}$ trays. How many trays of cookies does she have left?

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

2) Which comparison is correct?

☐ A. $\frac{2}{3} < \frac{1}{2}$
☐ B. $\frac{2}{3} = \frac{1}{2}$
☐ C. $\frac{2}{3} > \frac{1}{2}$
☐ D. $\frac{2}{3} < \frac{3}{6}$

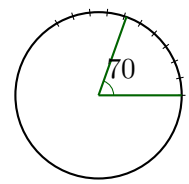
3) A toy costs \$8. A game costs 4 times as much. How much does the game cost?

☐ A. \$12
☐ B. \$4
☐ C. \$2
☐ D. \$32

4) What is $5 \times \frac{1}{4}$?

☐ A. $\frac{1}{20}$
☐ B. $\frac{4}{5}$
☐ C. $\frac{5}{4}$
☐ D. $\frac{5}{8}$

5)




The angle shown measures 70 degrees. How many one-degree angles is this?

☐ A. 35 one-degree angles
☐ B. 70 one-degree angles
☐ C. 140 one-degree angles
☐ D. 7 one-degree angles

6) How many unit fractions of $\frac{1}{7}$ make $\frac{5}{7}$?

☐ A. 2
☐ B. 5
☐ C. 7
☐ D. 12

7) Which statement is true about 0.5 and 0.5?

☐ A. They are not equal
☐ B. They are equivalent
☐ C. One is greater than the other
☐ D. They cannot be compared

8) Multiply $7 \times 314$ using the standard algorithm or partial products.

9) Diego cut a submarine sandwich into 8 equal pieces and ate 4 pieces. Maya cut an identical sandwich into 4 equal pieces and ate 2 pieces. Did they eat equivalent amounts?

☐ A. Yes, both ate $\frac{1}{2}$
☐ B. Yes, both ate $\frac{1}{4}$
☐ C. No, Diego ate more
☐ D. No, Maya ate more

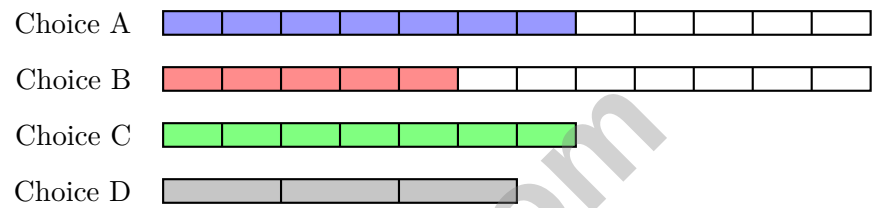
10) How many thirds are in $\frac{3}{3}$?

☐ A. 0
☐ B. 1
☐ C. 3
☐ D. 6

1) Ava reads 8 pages a day for 12 days. Noah reads 10 pages a day for 9 days. How many more pages does Ava read than Noah?

☐ A. 2 pages
☐ B. 18 pages
☐ C. 26 pages
☐ D. 6 pages

2) Which fraction bar correctly shows $\frac{7}{12}$?



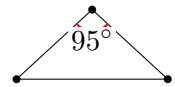

☐ A. 7 shaded out of 12
☐ B. 5 shaded out of 12
☐ C. 7 shaded out of 7
☐ D. 3 shaded out of 3

3) What is 55,432 − 23,108?

☐ A. 32,324
☐ B. 32,234
☐ C. 31,324
☐ D. 32,334

4) A baker has $3\frac{2}{5}$ pounds of almonds. She uses $2\frac{1}{5}$ pounds in a recipe. How many pounds of almonds are left?

5) Look at the triangle. It has one angle that is 95 degrees. What type of triangle is it?

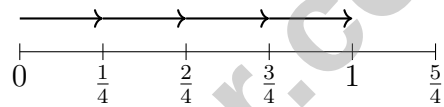



☐ A. Acute triangle
☐ B. Right triangle
☐ C. Obtuse triangle
☐ D. Equilateral triangle

6) Sam has 5 liters of juice. He uses 2 liters to make punch. How many liters of juice does he have left?

☐ A. 2 L
☐ B. 3 L
☐ C. 5 L
☐ D. 7 L

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




☐ A. $\frac{1}{4}$
☐ B. $\frac{4}{4}$ or 1
☐ C. $\frac{2}{4}$
☐ D. $\frac{4}{16}$

8) A teacher has 10 identical items to share equally among her class. If each student gets $\frac{1}{10}$ of all the items, how many students are in the class?

☐ A. 1 student
☐ B. 5 students
☐ C. 10 students
☐ D. 20 students

9) Is 25 prime or composite?

☐ A. Prime
☐ B. Both
☐ C. Neither
☐ D. Composite

# 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.**

# Practice Test Answers and Explanations

## Practice Test 1 Answers and Explanations

1) **Choice B is correct.** 4.NF.1 Find a common denominator: $\frac{1}{3} = \frac{20}{60}$, $\frac{2}{5} = \frac{24}{60}$, $\frac{1}{4} = \frac{15}{60}$. Since $24 > 20 > 15$, Blake ate most.
2) **Choice A is correct.** 4.NF.3 The container started full and some juice was served. Find how much was served by subtracting what's left from what started: $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$ liter of juice was served.
3) **Choice A is correct.** 4.MD.7 To find the missing part, subtract what you know from the total: $80° - 32° = \mathbf{48°}$.
4) **Choice B is correct.** 4.MD.3 Yard perimeter $= 2(20) + 2(15) = 40 + 30 = 70$ ft.
5) **Choice C is correct.** 4.MD.5 An angle can be named in reverse order, but the vertex must stay in the middle. Since $M$ is the vertex, $\angle NMO$ and $\angle OMN$ name the same angle.
6) **Choice D is correct.** 4.NF.4 Dylan is making 5 batches, each with $\frac{3}{4}$ cup of sugar. Multiply: $5 \times \frac{3}{4} = \frac{5\times3}{4} = \frac{15}{4} = 3\frac{3}{4}$ cups. The answer is $\mathbf{3\frac{3}{4}}$ cups.
7) **Choice D is correct.** 4.OA.2 "2 times as many" means multiply by 2: $2 \times 100 = 200$ action figures.
8) **Choice B is correct.** 4.NF.3 The paper strip is divided into 3 equal parts, and all 3 are colored. So the whole strip is colored: $\frac{3}{3}$. As unit fractions: $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$.
9) **Choice D is correct.** 4.MD.5 A complete rotation around a circle measures **360°** because that's the universal standard for a full turn.
10) **Choice D is correct.** 4.OA.3 Two steps! Step 1: total players from all three teams: $18 + 22 + 20 = 60$. Step 2: divide into 8 groups: $60 \div 8 = 7$ remainder 4. So each group has 7 players with 4 left over. Check: $7 \times 8 = 56$, and $60 - 56 = 4$. ✓
11) **Choice B is correct.** 4.NF.5 The answer is true, but the reasoning is wrong! Don't compare the digits "5" and "45." Instead, compare place values: Rewrite as $0.5 = 0.50$, so 5 tenths $>$ 4 tenths. Therefore $0.5 > 0.45$.
12) **The correct answer is $\frac{5}{8}$.** 4.NF.4 Five eighths: $5 \times \frac{1}{8} = \frac{5}{8}$.
13) **Choice D is correct.** 4.OA.1 Compare the bars by dividing the longer by the shorter: $12 \div 3 = 4$. So Bar B is **4** times as long as Bar A.
14) **The correct answer is 4,655.** 4.NBT.4 Regroup carefully across the zeros: $7{,}000 - 2{,}345 = \mathbf{4{,}655}$.
15) **The correct answer is A, D.** 4.NF.3 A: $6 + 2 = 8$ eighths $= 1$ whole ✓. D: $5 + 1 = 6$ sixths $= 1$ whole ✓. B: $\frac{6}{5}$ (more than 1). C: $\frac{7}{8}$ (less than 1). E: $\frac{5}{4}$ (more than 1).
16) **Choice C is correct.** 4.MD.4 Look at the line plot where $\frac{3}{8}$ is marked. Count the X marks stacked above it: there are **3** marks.
17) **Choice A is correct.** 4.MD.5 Counting the one-degree angle marks from 0° to 45° gives us **45°**.
18) **Choice C is correct.** 4.NBT.2 The digit 3 is in the hundreds place. Value: $3 \times 100 = 300$ ✓
19) **The correct answer is 2.** 4.OA.4 Find every pair that multiplies to 35: $1 \times 35$ and $5 \times 7$. (No other small numbers divide 35 evenly.) So there are **2** factor pairs.
20) **Choice C is correct.** 4.MD.1 Since 1 centimeter $= 10$ millimeters, multiply: $19 \times 10 = 190$ mm. The answer is **190** mm.
21) **Choice C is correct.** 4.NF.4 Tripling means we multiply by 3. Since each part is $\frac{1}{4}$ cup, we get $3 \times \frac{1}{4} = \frac{3}{4}$ cup.
22) **Choice B is correct.** 4.NF.4 To write $2 \times \frac{1}{3}$ as a fraction, count the copies: we have 2 copies of $\frac{1}{3}$. So the fraction is $\frac{2}{3}$.
23) **Choice B is correct.** 4.G.2 A parallelogram has two pairs of opposite sides that are parallel to each other. This is the defining characteristic that distinguishes a parallelogram from trapezoids and other quadrilaterals. The answer is **B**.
24) **Choice D is correct.** 4.OA.4 Dots form odd-number rows: Figure 1 $= 1$, Figure 2 $= 1 + 3 = 4$, Figure 3 $= 1 + 3 + 5 = 9$. Figure 4 $= 9 + 7 = \mathbf{16}$ dots.
25) **Choice D is correct.** 4.NBT.3 We're rounding to the nearest ten. Look at the ones digit: 6. Since $6 \geq 5$, we round UP! The tens digit goes from 9 to 10—a rollover! So the answer is **5,200**. ✓
26) **Choice B is correct.** 4.NF.5 We can convert $\frac{8}{10}$ to a fraction with denominator 100 by multiplying both parts by 10: $\frac{8}{10} = \frac{80}{100}$.

## Author's Note

### Math Explorer's Note

## Hi, Brave Explorer!

◇ What a trip! You explored 4 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

⋆ **Smart explorers know:** every trip teaches something. Through 4 tests, you learned a lot. You are a stronger math explorer now. ⋆

**Your Explorer Tools**

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

**Explorer tip:** on test day, use the tools you packed. You have the skills. You are ready!

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

**Jay Daie**

Your Math Trail Guide

# PRACTICE TODAY, SUCCEED TOMORROW!

This Grade 4 Math Practice Tests book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 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.

### Track Progress
Measure growth across multiple practice tests.

### 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
- Geometry & Measurement
- Data, Graphs & Line Plots
- Perimeter & Area
- Patterns & Algebraic Thinking
- Word Problems
- And More!

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

**MORE PRACTICE. GREATER RESULTS.**

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.

4 FULL-LENGTH PRACTICE TESTS

STANDARDS-ALIGNED REVIEW

MIXED PRACTICE QUESTIONS