

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

New Mexico NM MSSA

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 New Mexico NM-MSSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 4 practice rounds for NM-MSSA, built around mesa views, bright art patterns, and careful fraction thinking, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, New Mexico Math Explorer!

Nine steady rounds on the Land of Enchantment math route

This book gives you nine full Grade 4 practice tests for NM-MSSA. Each round uses mesa views, bright art patterns, and careful fraction thinking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

New Mexico 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 New Mexico NM-MSSA 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 Land of Enchantment 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 NM-MSSA 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.

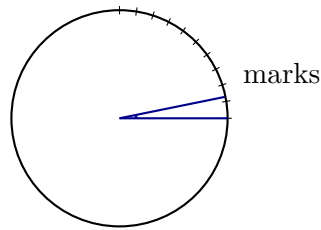
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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& answers

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1)

This angle reaches the first 9° mark. How many one-degree angles make this angle?

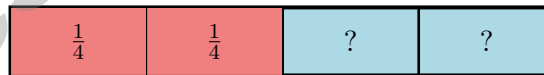
- A. 9 one-degree angles C. 18 one-degree angles
 B. 4.5° D. 1°

2) How many lines of symmetry does a regular pentagon (5-sided polygon) have?

- A. 3 C. 5
 B. 4 D. 10

3) A repeating pattern uses colors: red, blue, green, red, blue, green. What color is the 11th item?

- A. Red C. Green
 B. Yellow D. Blue



One whole (4 fourths)

4)

The bar shows $\frac{2}{4}$ is shaded. If you have 3 such bars, how much is shaded in total?

- A. $\frac{6}{4}$ (or $1\frac{1}{2}$) C. $\frac{3}{4}$
 B. $\frac{2}{12}$ D. $\frac{5}{4}$



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5) Two friends share pizza. One eats $\frac{3}{8}$ and the other eats $\frac{4}{8}$. How much pizza do they eat together?

A. $\frac{7}{16}$ of the pizza

C. $\frac{1}{8}$ of the pizza

B. $\frac{7}{8}$ of the pizza

D. $1\frac{1}{8}$ pizzas

6) Tommy eats $\frac{1}{4}$ of a pizza 6 times a week. How much pizza does he eat per week?

A. $\frac{1}{24}$ of a pizza

C. $\frac{6}{24}$ of a pizza

B. $\frac{6}{4}$ or $1\frac{1}{2}$ of a pizza

D. $\frac{5}{4}$ of a pizza

7) What are the factors of 15?

A. 1, 3, 5, 9, 15

C. 3, 5, 15

B. 1, 5, 15

D. 1, 3, 5, 15

8) Look at the figure. How many angles are marked as right angles?



Right angle
markers

A. One

C. Three

B. Two

D. Four

9) What does a point represent in geometry?

A. An exact location with no size or shape

C. The corner of a shape

D. The space between two lines

B. A small circle on a diagram



10) In the number 6,217, which digit is in the tens place?

- A. 6 C. 1
 B. 2 D. 7

11) Amir needs 45 grams of butter for a recipe. He has 60 grams. How much extra butter does he have?

- A. 15 grams C. 60 grams
 B. 45 grams D. 105 grams

12) Mia had 25,000 dollars. She spent 12,345 dollars. How much money does she have left?

- A. 12,655 dollars C. 13,655 dollars
 B. 12,755 dollars D. 12,565 dollars

13) Diego collected ant speeds (in eighths of an inch per second). His data: $\frac{1}{8}$, $\frac{2}{8}$, $\frac{2}{8}$, $\frac{1}{8}$, $\frac{3}{8}$, $\frac{2}{8}$, $\frac{1}{8}$. On the line plot, how many X marks are at $\frac{1}{8}$?

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

14) What is the sum: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$?

- A. $\frac{5}{8}$ C. $\frac{1}{8}$
 B. $\frac{5}{40}$ D. $\frac{1}{5}$

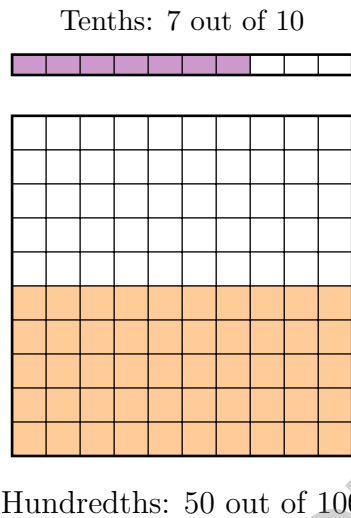
15) What is $3 \times \frac{2}{6}$?

- A. $\frac{3}{6}$ C. $\frac{2}{9}$
 B. $\frac{6}{6}$ D. $\frac{6}{18}$



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6) Compare using a tenths-hundredths model. Which is true?



- A. $\frac{7}{10} > \frac{50}{100}$
 C. $\frac{7}{10} = \frac{50}{100}$
 B. $\frac{7}{10} < \frac{50}{100}$
 D. Cannot be compared

7) A recipe calls for $\frac{3}{5}$ cup of milk. If you double the recipe, how much milk do you need?

- A. $\frac{3}{10}$ cup
 C. $\frac{5}{6}$ cup
 B. $\frac{6}{5}$ cups (or $1\frac{1}{5}$ cups)
 D. $\frac{2}{5}$ cup

8) Complete the sequence using the pattern shown in the table:

Term	1	2	3	4
Value	9	12	15	?

- A. 16
 C. 18
 B. 17
 D. 20

1) Which number is a factor of 16?

A. 3

C. 5

B. 6

D. 4

2) What is $\frac{9}{10}$ written as a fraction with denominator 100?

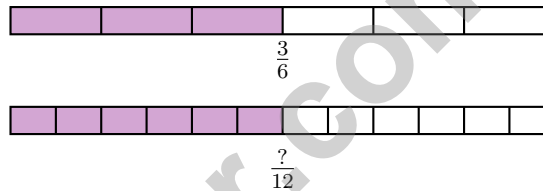
A. $\frac{9}{100}$

C. $\frac{90}{100}$

B. $\frac{19}{100}$

D. $\frac{99}{100}$

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



What number replaces the question mark?

A. 4

C. 6

B. 5

D. 8

4) How many rays make up an angle?

A. 1

C. 3

B. 2

D. 4



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5) In 130,800, what digit is in the hundreds place?

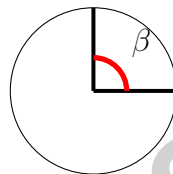
6) Which list is ordered correctly from least to greatest?

A. 0.7, 0.67, 0.77, 0.6

C. 0.77, 0.7, 0.67, 0.6

B. 0.6, 0.67, 0.7, 0.77

D. 0.67, 0.6, 0.7, 0.77



7)

What is the measure of the angle shown?

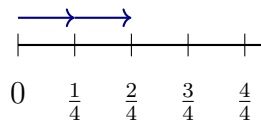
A. 45°

C. 135°

B. 90°

D. 180°

8) How many hops of $\frac{1}{4}$ are shown to reach $\frac{2}{4}$?



A. 1 hop

C. 3 hops

B. 2 hops

D. 4 hops



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.MD.C.5) The small angle reaches the first degree mark at 9° , containing **9** one-degree angles.
- Choice C is correct.** (4.G.A.3) A regular pentagon (5 equal sides) has five lines of balance. Each line passes through one corner and the middle of the opposite side. The answer is **5** lines of symmetry.
- Choice D is correct.** (4.OA.B.4) The pattern repeats every 3 items. Position $11 \div 3 = 3$ remainder 2, so the 11th item is the 2nd color: blue. ✓
- Choice A is correct.** (4.NF.B.4) With 3 bars and each showing $\frac{2}{4}$ shaded, we have $3 \times \frac{2}{4} = \frac{6}{4} = 1\frac{1}{2}$ shaded in total.
- Choice B is correct.** (4.NF.B.3) One friend eats $\frac{3}{8}$, the other eats $\frac{4}{8}$. Together, that's $3 + 4 = 7$ eighths: $\frac{7}{8}$ of the pizza.
- Choice B is correct.** (4.NF.B.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.B.4) Find every number that divides 15 evenly. Pair them up: 1×15 and 3×5 . So the factor list is 1, 3, 5, 15. (Note that 1 and the number itself are always factors!)
- Choice B is correct.** (4.G.A.2) Right angle markers are shown at two of the corners of the figure. These markers indicate that those two angles measure 90 degrees. The answer is **B**.
- Choice A is correct.** (4.G.A.1) A point is simply a precise spot in space — like marking a location on a map with a pin. It has no length, width, or height; we just draw it as a tiny dot to show where it is.
- Choice C is correct.** (4.NBT.A.1) In 6,217, counting from the right: ones is 7, tens is 1, hundreds is 2, thousands is 6. The tens place contains **1**. ✓
- Choice A is correct.** (4.MD.A.2) Amir has 60 grams of butter but only needs 45 grams. Subtract: $60 - 45 = 15$ grams. He has **15** grams extra.
- Choice A is correct.** (4.NBT.B.4) Mia spent money, so we subtract. $25,000 - 12,345 = \mathbf{12,655}$ dollars left.
- Choice B is correct.** (4.MD.B.4) Count how many times $\frac{1}{8}$ appears in our data: it shows up **3** times.
- Choice A is correct.** (4.NF.B.3) We have 5 copies of the unit fraction $\frac{1}{8}$. When we add them, the denominator stays 8, and we count the unit fractions: 5 of them. So $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{5}{8}$.
- Choice B is correct.** (4.NF.B.4) Three groups of $\frac{2}{6}$: $3 \times \frac{2}{6} = \frac{6}{6}$.
- The correct answer is A, B.** (4.NF.C.5) A is true: Rewrite $0.9 = 0.90$. Compare: $90 > 89$ hundredths, so $0.9 > 0.89$. B is true: 0.09 has 0 tenths while 0.9 has 9 tenths, so $0.09 < 0.9$. C is false: they differ by 0.81. D is false: $0.89 < 0.9$. E is false: $0.9 > 0.8$.
- Choice A is correct.** (4.NF.A.1) The shaded wedges in both circles are the same size. The first circle is split into 4 pieces (1 shaded), the second into 8 pieces (2 shaded). They cover the same amount: $\frac{1}{4} = \frac{2}{8}$.
- Choice C is correct.** (4.NF.C.5) The phrase “thirty-five hundredths” means $\frac{35}{100}$, which you write as a decimal: 0.35.
- Choice C is correct.** (4.OA.A.3) Two steps! Step 1: find how many cookies are left after giving some away. $50 - 14 = 36$ cookies. Step 2: equal bags means divide: $36 \div 4 = 9$ cookies per bag.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest thousand. Look at the hundreds digit: 5. Since $5 \geq 5$, we round UP! The thousands digit changes from 6 to 7, giving us **67,000**. ✓
- Choice A is correct.** (4.NF.B.3) Check both decompositions in choice A by adding numerators. First way: $6 + 4 = 10$, so $\frac{6}{12} + \frac{4}{12} = \frac{10}{12}$ ✓. Second way: $5 + 5 = 10$, so $\frac{5}{12} + \frac{5}{12} = \frac{10}{12}$ ✓. Both ways break $\frac{10}{12}$ apart differently but equal the same total. *Why other options fail:* B's second pair sums to $11/12$; C's second sum is $11/12$; D's second sum is only $9/12$.
- The correct answer is 45.** (4.NBT.A.2) The number 45,328 breaks into 45 thousands and 328 ones, so there are 45 thousands ✓
- Choice D is correct.** (4.OA.A.2) The longer bar (24 apples) is 4 equal pieces, each one orange-group's size. To find one piece, divide: $24 \div 4 = 6$ oranges.
- The correct answer is 210.** (4.MD.C.5) Multiply the fraction by 360: $\frac{7}{12} \times 360^\circ = 7 \times 30^\circ = \mathbf{210^\circ}$.
- Choice C is correct.** (4.MD.A.3) To find area, we multiply length times width: $8 \times 5 = 40$ sq ft.



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Captain's Log

Ahoy, Math Sailor!

◇ You sailed through 9 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 9 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

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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- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement

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SUCCESS FOR LIFE.**

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Better Problem Solving

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Test Confidence

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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
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- ✓ And More!



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