

# 8

# New Mexico

# NM MSSA

# GRADE 4

# PRACTICE TESTS



$2 \times 3 = 6$

3

1

5

$2 \times 3 = 6$

2

4



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

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 New Mexico NM-MSSA Grade 4 Math Practice Tests

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



Eight 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!

Eight steady rounds on the Land of Enchantment math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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) Compare:  $\frac{8}{10}$  and  $\frac{75}{100}$ . Which is true?

A.  $\frac{8}{10} < \frac{75}{100}$

B.  $\frac{8}{10} = \frac{75}{100}$

C.  $\frac{8}{10} > \frac{75}{100}$

D. Cannot be compared

2) A recipe needs  $\frac{2}{3}$  cup of flour. How can we write this as a sum of unit fractions?

A.  $\frac{1}{3} + \frac{1}{3}$

B.  $\frac{1}{2} + \frac{1}{2}$

C.  $\frac{2}{3} + \frac{1}{3}$

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

3) What do you call two angles that share a vertex and their sides form two straight lines?

A. Supplementary angles

B. Vertical angles

C. Adjacent angles

D. Right angles

4) Jacob receives three \$5 bills. How much money is shown?



Three \$5 bills

A. \$10

B. \$15

C. \$20

D. \$25

5) Sam has a ribbon  $\frac{6}{8}$  yard long. He cuts it into two equal pieces. Each piece is:

A.  $\frac{2}{8}$  yard

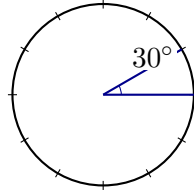
B.  $\frac{3}{8}$  yard

C.  $\frac{4}{8}$  yard

D.  $\frac{6}{8}$  yard



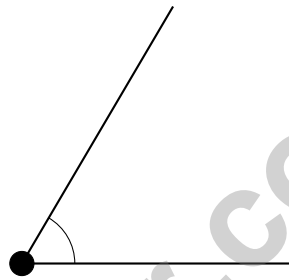
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6)

Ava's angle measures  $30^\circ$ . How many one-degree angles does it contain?

- A. 15 one-degree angles                       C. 60 one-degree angles  
 B. 30 one-degree angles                       D. 3 one-degree angles



7)

Comparing this angle to a straight angle, this angle is:

- A. much smaller                                       C. slightly smaller  
 B. about the same size                               D. much larger

8) A rectangle has a width of 4 inches. The perimeter is 28 inches. What is the length?

- A. 6 in     C. 10 in  
 B. 8 in     D. 12 in

9) Which statement is true when rounding to the nearest hundred?

- A. 6,293 rounds to 6,300                               C. 6,249 rounds to 6,250  
 B. 6,234 rounds to 6,300                               D. 6,251 rounds to 6,200





- 1) There are 5 green marbles. There are 3 times as many red marbles as green marbles. Which equation shows how many red marbles there are?

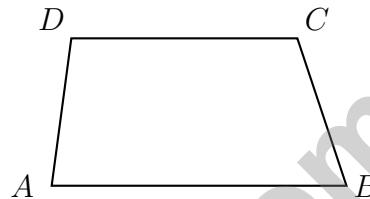
A.  $5 + 3 = 8$

C.  $5 \times 3 = 15$

B.  $5 - 3 = 2$

D.  $5 \div 3$

- 2) This trapezoid has different leg lengths. How many lines of symmetry does it have?



A. 0 lines

C. 2 lines

B. 1 line

D. 4 lines

- 3) A book has  $4\frac{2}{6}$  chapters in Part 1 and  $2\frac{3}{6}$  chapters in Part 2. How many chapters total are in both parts?

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

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

B.  $7\frac{1}{6}$

D.  $2\frac{1}{6}$

- 4) Round 55,555 to the nearest ten thousand.

A. 50,000

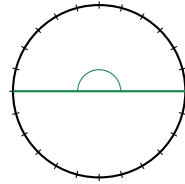
C. 56,000

B. 55,000

D. 60,000



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5)

A straight angle is shown with degree tick marks. How many one-degree angles form a straight angle?

- A. 90 one-degree angles                       C. 270 one-degree angles  
 B. 180 one-degree angles                     D. 360 one-degree angles

6) Which symbol makes this true?  $456,100 \square 456,099$ 

- A.  $<$      C.  $=$   
 B. Cannot compare                               D.  $>$

7) What is  $\frac{4}{10}$  as a fraction with denominator 100?

- A.  $\frac{4}{100}$      C.  $\frac{40}{100}$   
 B.  $\frac{14}{100}$      D.  $\frac{44}{100}$

8) What rule describes this pattern? 12, 18, 24, 30, 36, ...

- A. Add 12     C. Multiply by 2  
 B. Add 8     D. Add 6 (multiples of 6)

9) A scale diagram shows weights. A bag of sugar weighs 3 kg, and a bag of salt weighs 2 kg. If you stack 5 bags of sugar and 3 bags of salt on a scale, what is the total weight?

- A. 9 kg     C. 21 kg  
 B. 15 kg     D. 30 kg



1) What is  $3,645 \div 5$ ?

A. 739

C. 719

B. 749

D. 729

2) Round 26,734 to the nearest hundred.

3) A spinner makes a  $\frac{1}{4}$  turn. How many degrees does it rotate?

A.  $45^\circ$

C.  $90^\circ$

B.  $60^\circ$

D.  $120^\circ$

4) A piece of string weighs  $\frac{3}{5}$  ounce. What is the weight of 4 pieces?

A.  $\frac{3}{20}$  ounce

C.  $\frac{7}{5}$  ounces

B.  $\frac{12}{5}$  ounces

D.  $\frac{4}{5}$  ounce

5) In the number 7,846, what digit is in the tens place?

A. 7

C. 4

B. 8

D. 6



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6) Looking at a number line, if you make 4 jumps of  $\frac{1}{6}$  each, what is your final position?

- A.  $\frac{1}{6}$   
 B.  $\frac{2}{6}$

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

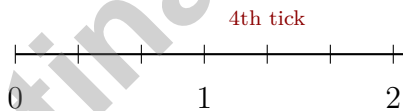
7) What is  $4 \times \frac{1}{3}$ ?

- A.  $\frac{4}{3}$  or  $1\frac{1}{3}$   
 B.  $\frac{1}{12}$

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

8) Simplify  $\frac{2}{8}$ .

9) A number line is marked from 0 to 2, with tick marks every  $\frac{1}{3}$ . Which point is at the 4th tick after 0?



- A.  $\frac{2}{3}$   
 B.  $\frac{4}{3}$

- C.  $\frac{3}{4}$   
 D.  $\frac{1}{3}$

10) Which part of an angle is the point where the two rays meet?

- A. The side  
 B. The vertex

- C. The arc  
 D. The exterior



## 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 C is correct.** (4.NF.C.5) Convert  $\frac{8}{10}$  to hundredths:  $\frac{8}{10} = \frac{80}{100}$ . Now compare:  $\frac{80}{100} > \frac{75}{100}$ .
- Choice A is correct.** (4.NF.B.3) The recipe needs  $\frac{2}{3}$  cup of flour. This is 2 equal pieces, each  $\frac{1}{3}$  cup. So  $\frac{2}{3} = \frac{1}{3} + \frac{1}{3}$ .
- Choice B is correct.** (4.G.A.1) When two lines cross, they form angles opposite each other. These opposite angles are called vertical angles, and here's the cool part: they're always exactly the same size!
- Choice B is correct.** (4.MD.A.2) The picture shows three \$5 bills. Multiply:  $3 \times 5 = 15$  dollars. The total is \$15.
- Choice B is correct.** (4.NF.B.3) Sam's ribbon is  $\frac{6}{8}$  yard. Cut into two equal pieces means each piece is half:  $\frac{6}{8} \div 2 = \frac{3}{8}$  ✓.
- Choice B is correct.** (4.MD.C.5) When we say an angle measures  $30^\circ$ , that means it is made of **30** one-degree angles.
- Choice A is correct.** (4.MD.C.5) This angle is much smaller than a straight angle (180 degrees). It appears to be acute or close to right.
- Choice C is correct.** (4.MD.A.3) Use  $P = 2\ell + 2w = 28$  with  $w = 4$ :  $2\ell + 2(4) = 28$ . Solve:  $2\ell + 8 = 28$ , so  $2\ell = 20$ , thus  $\ell = 10$  in.
- Choice A is correct.** (4.NBT.A.3) We're rounding to the nearest hundred, so check the tens digit of each. Option A (6,293): tens digit is  $9 \geq 5$ , rounds UP to **6,300**. ✓ Option B (6,234): tens digit is  $3 < 5$ , rounds DOWN to 6,200 (not 6,300). Option C (6,249): tens digit is  $4 < 5$ , rounds DOWN to 6,200 (not 6,250). Option D (6,251): tens digit is  $5 \geq 5$ , rounds UP to 6,300 (not 6,200).
- Choice B is correct.** (4.NF.C.5) Both pictures display the same amount: 3 tenths or 30 hundredths. So  $\frac{3}{10} = \frac{30}{100} = 0.30 = 0.3$ .
- Choice C is correct.** (4.NF.B.3) Add the wholes:  $3 + 2 = 5$ . Add the fractions:  $\frac{5}{12} + \frac{4}{12} = \frac{9}{12}$ . The sum is  $5\frac{9}{12}$ .
- Choice C is correct.** (4.MD.C.5) Multiply the fraction by 360:  $\frac{5}{12} \times 360^\circ = 5 \times 30^\circ = 150^\circ$ .
- Choice D is correct.** (4.G.A.3) A regular pentagon with 5 equal sides has five lines of symmetry. Each line passes through one corner (vertex) and the middle of the opposite side. The answer is **5** lines of symmetry.
- Choice C is correct.** (4.NBT.A.1) In 3,817, the digit 8 is in the hundreds place, so it represents **8** hundreds (or 800). ✓
- Choice B is correct.** (4.NF.A.1) All have numerator 5. Smaller denominators give bigger pieces. Order by denominator size:  $6 < 8 < 10$ , so  $\frac{5}{6} > \frac{5}{8} > \frac{5}{10}$ .
- The correct answer is A, E.** (4.NBT.B.6) Use long division:  $27 \div 4 = 6$  r3, bring down the 8 to get  $38 \div 4 = 9$  r2, bring down the 4 to get  $24 \div 4 = 6$ . The quotient is 696 with no remainder. Statement A is correct (quotient is 696) and statement E is correct (no remaining pieces). Statements B, C, and D are incorrect.
- Choice C is correct.** (4.NF.B.4) Each jump is  $\frac{1}{3}$ . Making 6 jumps is the same as  $6 \times \frac{1}{3} = \frac{6}{3}$ . Since 3 thirds make one whole,  $\frac{6}{3}$  equals **2** wholes.
- Choice D is correct.** (4.NBT.A.2) Step 1:  $300,000 + 20,000 + 5,000 = 325,000$ . Step 2:  $325,000 + 600 + 30 + 2 = 325,632$  ✓
- Choice A is correct.** (4.MD.A.1) Since 1 pound = 16 ounces, divide:  $8 \div 16 = \frac{1}{2}$  pound. The answer is  $\frac{1}{2}$  pound.
- Choice D is correct.** (4.NBT.B.4) In the ones place:  $0 < 8$ , so regrouping is needed. The tens place is zero, so we must regroup from the hundreds place.
- Choice D is correct.** (4.OA.B.4) Circles in each figure: 1, 3, 6. The increases are +2, then +3. Next increase is +4:  $6 + 4 = 10$  circles.
- Choice B is correct.** (4.OA.B.4) Walk through the factor pairs of 48:  $1 \times 48$ ,  $2 \times 24$ ,  $3 \times 16$ ,  $4 \times 12$ ,  $6 \times 8$ . Combine both sides: **1, 2, 3, 4, 6, 8, 12, 16, 24, 48** (10 factors). Choice A misses 3 and 16; choice C misses 16; choice D misses 1.
- Choice D is correct.** (4.NBT.B.5) Split and calculate:  $18 \times (10 + 6) = 180 + 108 = 288$  square units.
- Choice D is correct.** (4.OA.A.3) Two parts! First:  $144 \div 12 = 12$  full crates. Then the 9 extra toys won't fill a crate but still need one—so we round up:  $12 + 1 = 13$  crates total.
- The correct answer is  $\frac{6}{4}$ .** (4.NF.B.4) With 6 tiles, each  $\frac{1}{4}$  meter long, we have  $6 \times \frac{1}{4} = \frac{6}{4} = 1\frac{1}{2}$  meters total.



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Cheer Squad Final Pep Talk

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## Hi, Math Star!

◇ 8 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 8 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Cheerleader

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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

## PERFECT FOR:

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- ✓ Test Preparation
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SUCCESS FOR LIFE.

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### 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.



### Academic Success

Strengthen skills needed for future learning.

## TOPICS COVERED

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- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
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