

$\frac{2}{3}$

# FULL-LENGTH

$\frac{2}{4}$

# New Mexico

$7 \times 8 =$

$0,25$



Aligned to State Standards

# NM MSSA

$7 \times 8$

# MATH

$56 \div 7$

Grade

# 5

$(a+b)^2$

# PRACTICE TESTS

Complete State Standards Review  
with Answer Key and  
Essential Math Skills Practice



**3 Full-Length Practice Tests**  
Aligned to State Standards



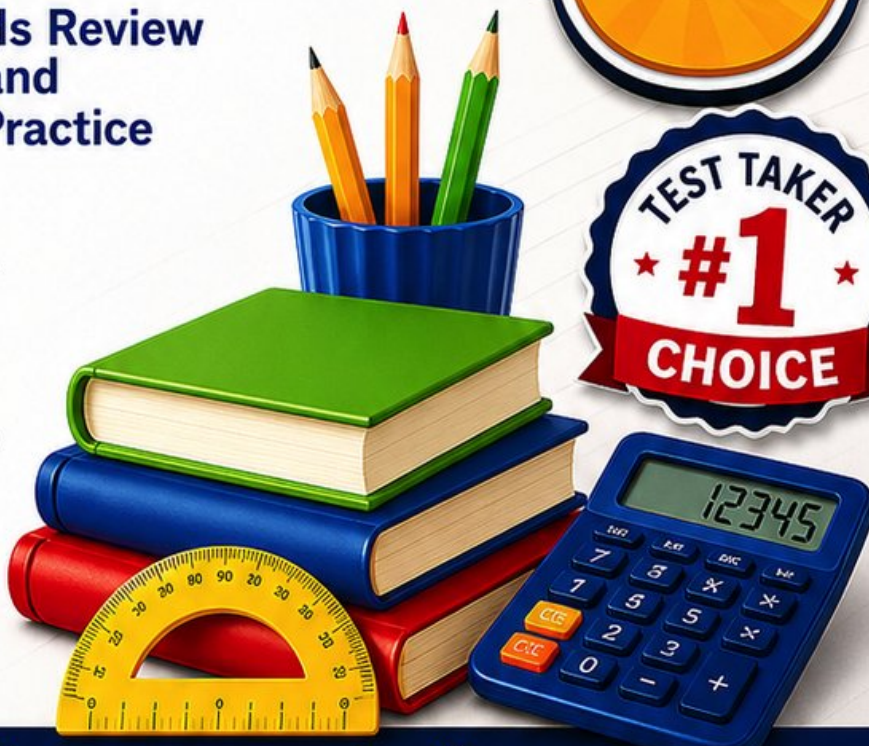
**Covers All Grade 5 Math Topics**  
Numbers & Operations, Fractions,  
Decimals, Geometry, Measurement,  
Data & Problem Solving



**Build Confidence**  
Strengthen Skills • Improve Accuracy  
• Boost Test Readiness



**Detailed Answer Key**  
Step-by-Step Explanations  
for All Questions



WRITTEN FOR  
GRADE 5 STUDENTS



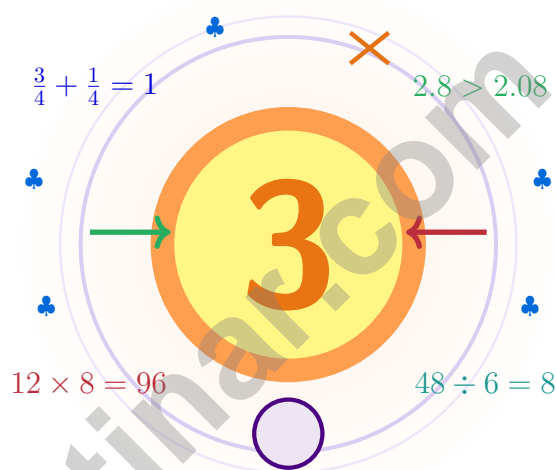
PERFECT FOR  
TEST PREP & REVIEW



CLASSROOM, HOME,  
OR SELF-STUDY USE

# 3 New Mexico NM-MSSA Grade 5 Math Practice Tests

*Land-of-Enchantment math for curious thinkers*



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The Land of Enchantment walk in ready to think.

**Jay Daie and Reza Nazari**



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# New Mexico, This Book Is for You

Land-of-Enchantment math for curious thinkers

## Welcome Letter for New Mexico Math Students

Math is full of small enchantments – patterns hiding in numbers, shapes hiding in graphs, all waiting for a curious mind.

Some questions will feel easy from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

### Read

Read every word twice  
and underline what is  
being asked.

### Solve

Choose the cleanest  
method and show your  
steps.

### Reflect

Look back to find what  
worked and what to fix.

**A New Mexico promise to yourself:** I will look at each problem like a New Mexico sunset – slowly, carefully, and grateful for the colors I find.

# A Map of the Pages

A simple game plan that turns practice into real progress

## Step 1: Warm Up

**Start with the quick review pages.**  
Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

## Step 2: Run

**Take one full test in a calm, quiet place.**  
Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

## Step 3: Review

**Score your work and circle missed questions.**  
Circle missed questions, sort out what went sideways, and notice which skills are calling for more attention.

## Step 4: Repeat

**Rework the missed questions before the next test.**  
Read the explanation, fix the work, and carry that lesson forward into the next test.

## 21 Days to Test Day

<b>Week 1</b>	Open with Test 1 and treat it like a snapshot, not a final grade.
<b>Week 2</b>	Use Test 2 to attack the skills that surprised you in Test 1.
<b>Week 3</b>	Bring Test 3 home with calm pacing and careful checking.



Scan me

# Three-Test Walkthrough

## What these practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Land of Enchantment for the New Mexico NM-MSSA with the wide, curious focus of a desert sky. The goal is bigger than getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, ruling out weak choices, and checking for reasonableness can save both time and points.

### Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually found.

### Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

**What strong work looks like on the NM-MSSA:** the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers the question being asked.



# Table of Contents

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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

1 day = 24 hours (hr)    1 year = 52 weeks



1) Which word form correctly reads 0.09?

- A. Zero point zero nine                       C. Nine hundredths  
 B. Nine tenths                                       D. Zero point nine

2) The table shows a pattern. What is the missing value?

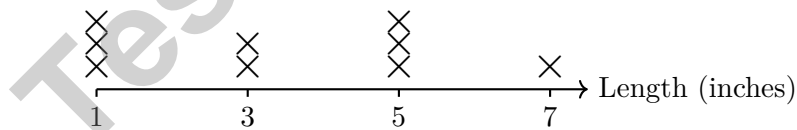
Input	Output
1	7
2	14
3	21
4	?

- A. 24     C. 30  
 B. 28     D. 32

3) Multiply:  $\frac{3}{8} \times \frac{2}{5}$

- A.  $\frac{5}{13}$      C.  $\frac{3}{13}$   
 B.  $\frac{6}{40}$      D.  $\frac{2}{8}$

4) The line plot shows the lengths (in inches) of ribbons collected by the art club:



If the total ribbon length is shared equally among 4 posters, how much ribbon goes on each poster?

- A.  $7\frac{1}{4}$  inches     C.  $7\frac{3}{4}$  inches  
 B.  $7\frac{1}{2}$  inches     D. 8 inches



5) Which statement about a rhombus is true?

- A. It has no equal sides.                       C. It always has four right angles.  
 B. It has four equal sides.                       D. It has exactly one pair of parallel sides.

6) Find:  $\frac{1}{3} \div 5$ .

*Record your answer in the space provided.*

7) Linda read 3 books with 50 pages each and 4 books with 25 pages each. Which expression gives the total pages?

- A.  $(3 + 4) \times (50 + 25)$                        C.  $3 \times 4 + 50 \times 25$   
 B.  $3 \times 50 + 4 \times 25$                        D.  $50 + 25 + 3 + 4$

8) Use the meaning of  $\frac{1}{3} \times \frac{1}{4}$  in an area model: shade  $\frac{1}{3}$  of one direction and  $\frac{1}{4}$  of the other in a rectangle. What fraction of the rectangle is double-shaded?

*Record your answer in the space provided.*



## Grade 5 Mathematics Reference Materials

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Customary	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
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### CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

### WEIGHT AND MASS

Customary	Metric
1 pound (lb) = 16 ounces (oz)	1 kilogram (kg) = 1,000 grams (g)
	1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)	1 week = 7 days
1 hour (hr) = 60 minutes (min)	1 year = 12 months
1 day = 24 hours (hr)	1 year = 52 weeks



1) A baker sells 3 dozen cupcakes. A dozen is 12. Which expression best represents total cupcakes?

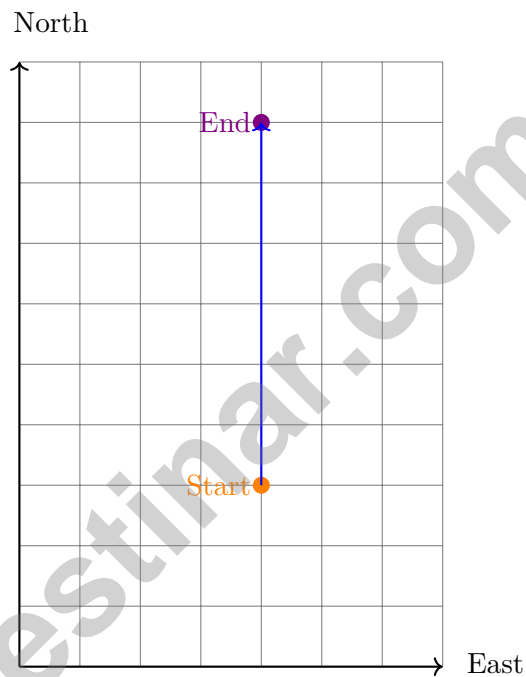
A.  $3 + 12$

C.  $12 - 3$

B.  $12 \div 3$

D.  $3 \times 12$

2) Two points on a map are at  $(4, 3)$  and  $(4, 9)$ . A person walks from one point to the other. In which direction did they walk?

 A. East C. North B. West D. South

3) How many  $\frac{1}{3}$ -meter pieces can be cut from a 5-meter rope?

*Record your answer in the space provided.*



## Grade 5 Mathematics Reference Materials

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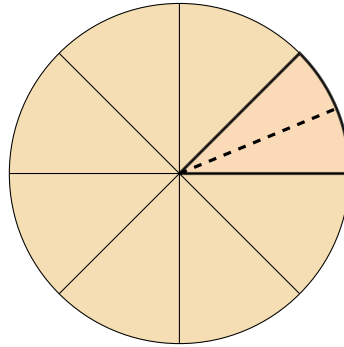
1 minute (min) = 60 seconds (sec)    1 week = 7 days

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1 day = 24 hours (hr)    1 year = 52 weeks



- 1) A pizza is cut into 8 equal slices. One slice is  $\frac{1}{8}$  of the pizza. This slice is divided equally among 2 people. What fraction of the whole pizza does each person get?



- A.  $\frac{1}{8}$ 
 C.  $\frac{2}{8}$   
 B.  $\frac{1}{16}$ 
 D.  $\frac{1}{6}$

- 2) Pattern A starts at 10 and decreases by 1 each step. Pattern B starts at 2 and increases by 2 each step. At which step does Pattern B first become greater than Pattern A?

Step	A	B
1	10	2
2	9	4
3	8	6
4	?	?

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

- 3) If you divide both 16 and 20 by their GCF, which fraction do you get?

- A.  $\frac{4}{5}$ 
 C.  $\frac{2}{5}$   
 B.  $\frac{8}{12}$ 
 D.  $\frac{1}{1}$



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice C is correct.** (5.NBT.A.3a) The decimal 0.09 has a 0 in the tenths place and a 9 in the hundredths place, so it reads as “nine hundredths”.
- Choice B is correct.** (5.OA.B.3) Rule: Output =  $7 \times$  Input;  $7 \times 4 = 28$ .
- Choice B is correct.** (5.NF.B.5b)  $\frac{3}{8} \times \frac{2}{5} = \frac{3 \times 2}{8 \times 5} = \frac{6}{40}$ , which simplifies to  $\frac{3}{20}$ .
- Choice C is correct.** (5.MD.B.2) Add the ribbon lengths shown by the marks:  $(1 \times 3) + (3 \times 2) + (5 \times 3) + (7 \times 1) = 31$  inches. Sharing 31 inches equally among 4 posters gives  $31 \div 4 = 7\frac{3}{4}$  inches per poster.
- Choice B is correct.** (5.G.B.3) A rhombus has all four sides equal in length. It does not have to have four right angles, and it has two pairs of parallel sides.
- The correct answer is  $\frac{1}{15}$ .** (5.NF.B.7c)  $\frac{1}{3} \times \frac{1}{5} = \frac{1}{15}$ .
- Choice B is correct.** (5.OA.A.2) Find the pages from each kind of book separately:  $3 \times 50$  and  $4 \times 25$ . Add those two products for the total pages.
- The correct answer is  $\frac{1}{12}$ .** (5.NF.B.4b) Splitting into 3 rows and 4 columns gives 12 equal parts; the overlapping region is 1 of those parts:  $\frac{1}{12}$ .
- Choice A is correct.** (5.NF.B.4) Three strips of  $\frac{1}{5}$  each:  $3 \times \frac{1}{5} = \frac{3}{5}$ .
- Choice C is correct.** (5.NBT.B.7)  $2.5 \times 8 = 20$ . Multiply:  $25 \times 8 = 200$ , then place decimal one place from right:  $20.0 = 20$  yards.
- The correct answer is 9 ft<sup>2</sup>.** (5.NF.B.6)  $4\frac{1}{2} \times 2 = \frac{9}{2} \times 2 = 9$ , so the area is 9 square feet.
- Choice B is correct.** (5.MD.C.4) A cube with 5 cubes along each edge has  $5 \times 5 = 25$  cubes in one layer and 5 layers, so it has  $25 \times 5 = 125$  unit cubes.
- The correct answer is  $3\frac{1}{3}$ .** (5.NF.B.5b) Convert the mixed numbers:  $2\frac{2}{3} = \frac{8}{3}$  and  $1\frac{1}{4} = \frac{5}{4}$ . Multiply to get  $\frac{40}{12}$ , which simplifies to  $\frac{10}{3} = 3\frac{1}{3}$ .
- Choice D is correct.** (5.MD.C.5a)  $V = 8 \times 5 \times 3 = 40 \times 3 = 120$  cm<sup>3</sup>.
- Choice A is correct.** (5.NBT.A.2) A power of 10 tells how many factors of 10 to use. In order: 100, 300, 2000, 10000. This confirms the answer.
- Choice A is correct.** (5.NBT.B.7)  $5.48 + 3.26$ : hundredths  $8 + 6 = 14$  (regroup); tenths  $4 + 2 + 1 = 7$ ; ones  $5 + 3 = 8$ . Sum is 8.74. Maya is correct.
- Choice C is correct.** (5.MD.C.5) The known width and height make groups of  $3 \times 8 = 24$  cubic centimeters. Since  $168 \div 24 = 7$ , the length is 7 cm.
- Choice C is correct.** (5.MD.C.5a) One box:  $14 \times 10 \times 6 = 840$  in<sup>3</sup>. Two boxes:  $840 \times 2 = 1680$  in<sup>3</sup>.
- Choice B is correct.** (5.MD.B.2) There are 3 X marks above  $\frac{3}{4}$  yard.  $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$  yards.
- Choice B is correct.** (5.G.A.2) Point T is located 7 units to the right and 2 units up, giving coordinates (7, 2).
- Choices A, B are correct.** (5.NF.B.7c) Dividing by a unit fraction counts how many unit-fraction pieces fit. Choices A and B both make 12; C makes 6 and D makes 8.
- Choice D is correct.** (5.NBT.B.7) Line up decimal points and subtract place by place.  $15.50 - 8.25 = 7.25$  dollars. This confirms the answer.
- Choice C is correct.** (5.MD.C.5) Choose the operation from the story, then keep the unit with the answer. Multiply:  $0.6 \times 5 = 3.0$  kilometers. This confirms the answer.
- Choice D is correct.** (5.MD.C.5c) Find each part first: Prism A is  $9 \times 4 \times 2 = 72$  cubic meters, and Prism B is  $6 \times 2 \times 1 = 12$  cubic meters. Because the parts do not overlap, add them:  $72 + 12 = 84$  cubic meters.
- Choice B is correct.** (5.MD.C.5a) The room is exactly filled, so compare volumes. Room volume:  $18 \times 12 \times 10 = 2160$  cubic feet. Number of boxes:  $2160 \div 360 = 6$  boxes.
- Choice A is correct.** (5.OA.A.2) Each small section represents  $(18 + 2)$ . Bar B has 2 sections, so it represents  $2 \times (18 + 2)$ .
- Choice A is correct.** (5.G.B.4) Triangle A is drawn with three different side lengths, and each angle is less than  $90^\circ$ .
- Choice B is correct.** (5.NF.A.2) Multiples of 6: 6, 12, 18, ... Multiples of 4: 4, 8, 12, ... The LCD is 12.



### A Mentor's Quiet Encouragement

---

#### To My Thoughtful Student,

◇ I want to take a moment, away from the noise of practice, to tell you something true: you have done excellent work. 3 practice tests is a real commitment. Most students do not finish what they start. You did. ◇

★ **What mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you tackle a problem today versus how you tackled it weeks ago. That growth is your real prize. ★

#### What I See In You

- **Determination:** DEEP. You don't quit when problems get tough.
- **Curiosity:** BRIGHT. You wonder why and how, not just "what's the answer."
- **Self-Awareness:** REAL. You know what you understand and what you're learning.
- **Kindness:** CONSISTENT. You're patient with yourself.

**Mentor's note:** on test day, treat yourself like you'd treat a friend. Be patient. Be encouraging. Be kind. The same skills that helped you finish 3 tests will carry you through the real one.

If you want to share a proud moment or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com). I'd love to hear from you!

**Jay Daie**

Your Math Mentor (Quietly Cheering)

# Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



## WHAT'S INSIDE:



### 3 Full-Length Grade 5 Math Practice Tests

Realistic test format to build familiarity and confidence.



### Covers All Essential Math Topics

Fractions, decimals, geometry, measurement, data, number operations, and more.



### Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



### Detailed Answer Key

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Use score trackers to identify strengths and focus on areas that need more practice.



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- ✓ Improve accuracy and speed
- ✓ Reduce test anxiety
- ✓ Achieve your best score!



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