

3

New Mexico

NM MSSA

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice

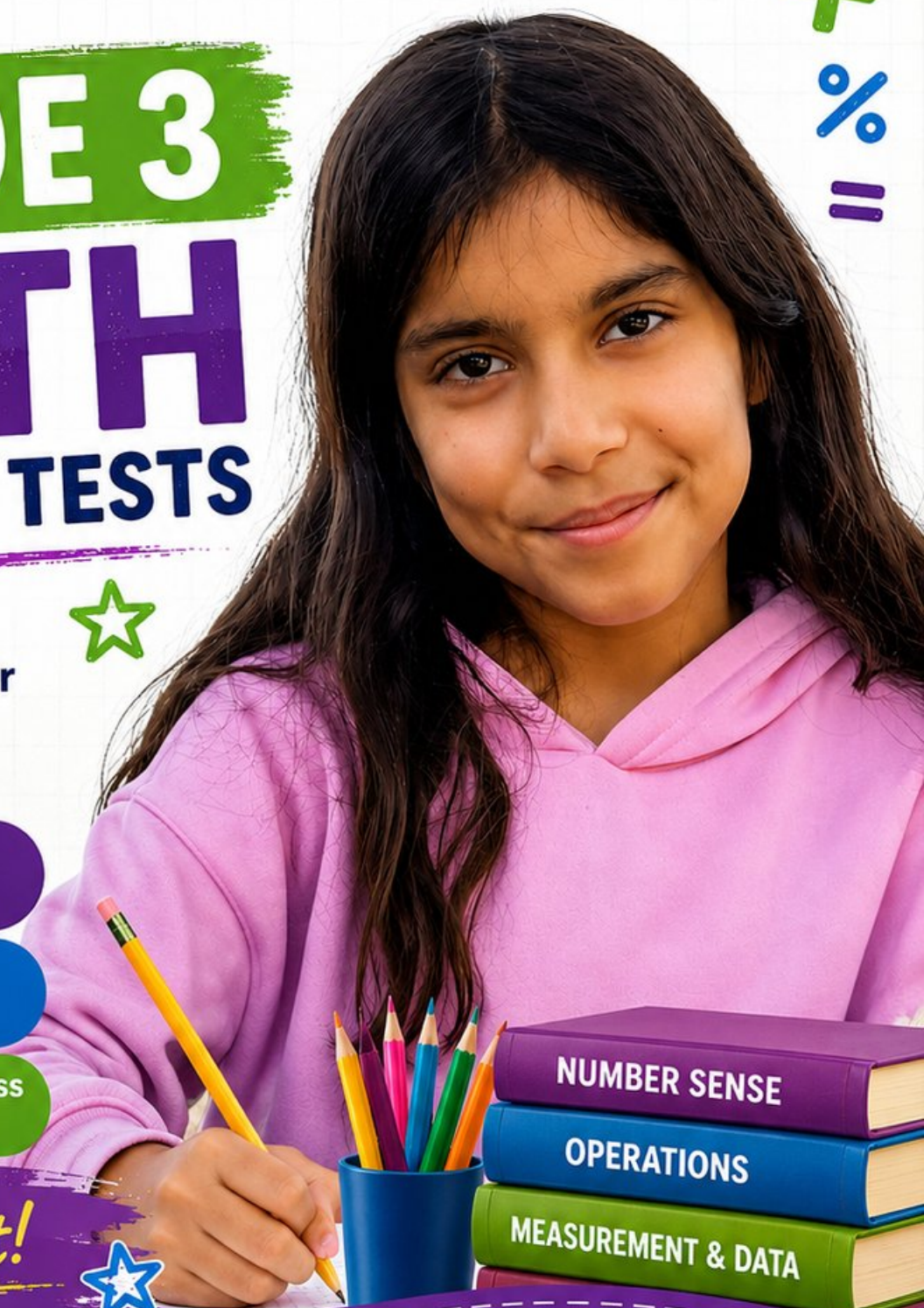


Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

Be Ready.
Do Your Best!



3 New Mexico NM-MSSA Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, New Mexico NM-MSSA strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome to the New Mexico Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the New Mexico NM-MSSA. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the New Mexico NM-MSSA asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong NM-MSSA work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.

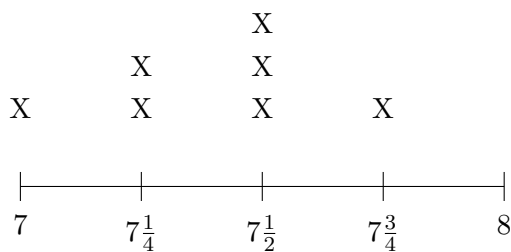


Scan me!
For more practice
& answers

Table of Contents

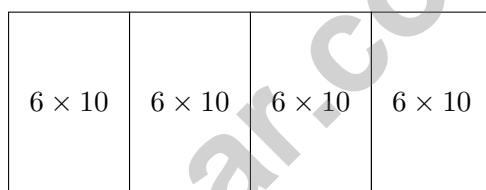
★ Practice Test 1	_____	17
★ Practice Test 2	_____	30
★ Practice Test 3	_____	42
Practice Test Answer Keys	_____	53
Practice Test Answers and Explanations	_____	56

5) A line plot shows paintbrush lengths in inches: $7, 7\frac{1}{4}, 7\frac{1}{2}, 7\frac{3}{4}, 8$.



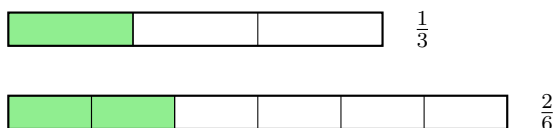
What is the most common paintbrush length?

- | | |
|---|---|
| <input type="checkbox"/> A. 7 inches | <input type="checkbox"/> C. $7\frac{1}{2}$ inches |
| <input type="checkbox"/> B. $7\frac{1}{4}$ inches | <input type="checkbox"/> D. $7\frac{3}{4}$ inches |
- 6) This area model shows 4×60 . What is the missing part?



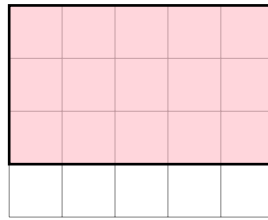
$$4 \times 60 = (4 \times 6 \times 10) = ?$$

- | | |
|--------------------------------|----------------------------------|
| <input type="checkbox"/> A. 24 | <input type="checkbox"/> C. 240 |
| <input type="checkbox"/> B. 60 | <input type="checkbox"/> D. 2400 |
- 7) Which fraction is equivalent to $\frac{1}{3}$?



- | | |
|---|---|
| <input type="checkbox"/> A. $\frac{2}{6}$ | <input type="checkbox"/> C. $\frac{3}{4}$ |
| <input type="checkbox"/> B. $\frac{2}{4}$ | <input type="checkbox"/> D. $\frac{1}{4}$ |

1) Count the square units in the shaded grid.



- A. 15 square units
- B. 10 square units
- C. 20 square units
- D. 12 square units

2) What number makes the equation true?

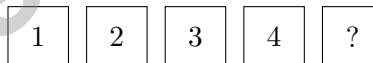
$$\square \times 6 = 48$$

- A. 10
- B. 9
- C. 7
- D. 8

3) Let n be the unknown. A restaurant has 80 chairs. They remove 8 chairs. The remaining chairs are arranged equally in 8 rows. How many chairs are in each row?

- A. 8
- B. 12
- C. 10
- D. 9

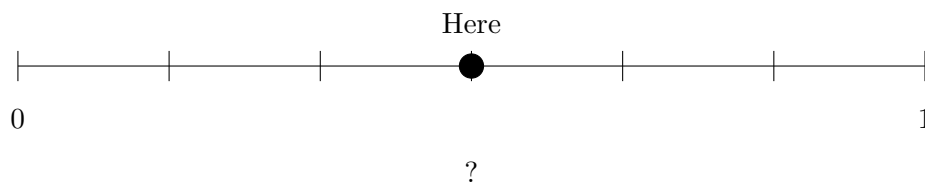
4)



Which number should replace the ?

- A. 5
- B. 6
- C. 7
- D. 8

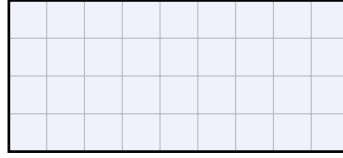
- 1) Lily has 16 strawberries. She puts them equally into 2 bowls. How many strawberries are in each bowl?
- A. 7 C. 14
 B. 18 D. 8
- 2) Ben has a number line where each unit fraction part is $\frac{1}{6}$. How many parts fit in the interval from 0 to 1?
- A. 4 C. 6
 B. 5 D. 7
- 3) Ben divides 35 trading cards equally among 5 friends. How many cards does each friend get?
- A. 30 C. 6
 B. 8 D. 7
- 4) Ben has 127 stickers. He gets 234 more stickers. How many stickers does Ben have now?
- A. 351 C. 370
 B. 341 D. 361
- 5) Eli can group factors two ways. Which gives the same answer?
- A. $(3 \times 4) \times 2$ and $3 \times (4 \times 2)$ C. $(3 \times 4) \times 2$ and $(3 + 4) \times 2$
 B. $(3 \times 4) \times 2$ and $3 + (4 \times 2)$ D. $(3 \times 4) \times 2$ and $3 \times 4 - 2$
- 6) Which two fractions represent the same point on a number line?



- A. $\frac{2}{4}$ and $\frac{3}{6}$ C. $\frac{1}{3}$ and $\frac{3}{6}$
 B. $\frac{3}{8}$ and $\frac{4}{8}$ D. $\frac{1}{2}$ and $\frac{2}{3}$



- 7) On a grid, a rectangle is 9 units wide and 4 units tall.



How many unit squares cover it?

- A. 13 sq units C. 32 sq units
 B. 26 sq units D. 36 sq units
- 8) Round 662 to the nearest 10.
- A. 660 C. 665
 B. 662 D. 670
- 9) There are 9 students with 4 crayons each. How many crayons total?

- 10) $\frac{1}{4} = \frac{2}{7}$. What number goes in the box?

- A. 4 C. 8
 B. 6 D. 10

- 11) A unit square can be measured in different units. A unit square measured in inches is how many square inches?

- A. 1 square inch C. 4 square inches
 B. 2 square inches D. 0.5 square inches



Scan me!
For more practice
& answers

Practice Test Answer Keys

How to use this section with a Grade 3 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 builds stronger math habits.

Testinar.com



Scan me!
For more practice
& answers

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $7 \times 5 = 35$ square feet. Choice A (12) is the sum $7 + 5$; Choice C (24) is common product error; Choice D (70) is double the area.
- Choice C is correct.** **(3.G.A.1)** The red sides (top and bottom) appear parallel to each other, and the blue sides (left and right) appear parallel to each other. This is a parallelogram.
- Choice B is correct.** **(3.MD.D.8)** $P = 2(5) + 2(2) = 10 + 4 = 14$ cm.
- Choice C is correct.** **(3.MD.A.2)** Read directly from the measuring cup: 500 mL.
- Choice C is correct.** **(3.MD.B.4)** At $7\frac{1}{2}$, there are 3 X's. This is more than at any other length.
- Choice C is correct.** **(3.NBT.A.3)** The area model shows 4 groups of (6×10) . Adding: $60 + 60 + 60 + 60 = 240$. Or: $(4 \times 6) \times 10 = 24 \times 10 = 240$.
- Choice A is correct.** **(3.NF.A.3)** $\frac{1}{3}$ and $\frac{2}{6}$ represent the same amount.
- Choice D is correct.** **(3.OA.D.9)** Multiplying any number by 2 gives an even result, because $2 \times n$ means n groups of 2, and 2 is even. This pattern always holds: even \times any number = even.
- The correct answer is 35 square units.** **(3.MD.C.5)** Multiply length by width: $7 \times 5 = 35$ square units.
- Choice D is correct.** **(3.OA.A.4)** Divide: $15 \div 3 = 5$. Each unknown weight is 5. Check: $5 \times 3 = 15$.
- Choice C is correct.** **(3.MD.C.5a)** A 5 cm \times 4 cm rectangle is covered by $5 \times 4 = 20$ unit squares of 1 cm each.
- Choice A is correct.** **(3.OA.D.8)** Step 1: Total candy: $4 \times 8 = 32$ pieces. Step 2: Subtract eaten: $32 - 12 = 20$ pieces left. (Choice C is step 1 only.)
- Choice A is correct.** **(3.MD.C.7c)** $5 \times (4 + 3) = (5 \times 4) + (5 \times 3) = 20 + 15 = 35$. Splitting the width lets us show the distributive property with area.
- Choices A and C are correct.** **(3.NF.A.3b)** $\frac{1}{2} = \frac{2}{4}$ (multiply by 2) and $\frac{1}{2} = \frac{3}{6}$ (multiply by 3). Choice B is wrong because $\frac{1}{4}$ is one quarter. Choices D and E are not listed as correct.
- The correct answer is 30 apples.** **(3.MD.B.3)** Basket A: $2 \times 5 = 10$ apples. Basket B: $4 \times 5 = 20$ apples. Total: $10 + 20 = 30$ apples.
- Choice D is correct.** **(3.G.A.2)** Three vertical lines create 4 equal columns, so the rectangle is divided into 4 parts.
- Choice D is correct.** **(3.NBT.A.2)** Start at 0, jump 150 to get to 150, then jump 300 more to get to 450.
- Choice C is correct.** **(3.MD.C.7d)** When a composite shape is divided into non-overlapping rectangles, the total area equals the sum of the individual rectangle areas. Here: $12 + 15 = 27$ square units.
- Choice D is correct.** **(3.OA.B.6)** $54 \div 6 = \square$ means $\square \times 6 = 54$. Since $9 \times 6 = 54$, the answer is 9.
- Choice C is correct.** **(3.MD.C.7a)** Visual grid: 4 wide \times 5 tall = 20 square units.
- Choice B is correct.** **(3.NF.A.3c)** $\frac{2}{2}$ and $\frac{4}{4}$ are both 1 whole. Numerator = denominator means you have all the parts.
- Choice D is correct.** **(3.OA.A.3)** Multiply: 3 groups \times 5 stars per group = 15 stars.
- Choice B is correct.** **(3.NF.A.3d)** Same numerator: fifths are smaller pieces than fourths. Two fifths is less than two fourths.
- Choice B is correct.** **(3.MD.A.1)** The minute hand on 3 means 15 minutes. The hour hand between 11 and 12 means the hour is 11. So the time is 11 : 15.
- Choice C is correct.** **(3.MD.C.7)** $3 \times 5 = 15$ square units. Choice A gives 18, B gives 16, and D gives 16.
- Choice C is correct.** **(3.MD.C.5b)** $4 \times 4 = 16$ unit squares, area is 16 square units.
- Choice D is correct.** **(3.NBT.A.1)** Numbers from 55 to 64 round to 60. The number 65 has ones $5 \geq 5$, so it rounds to 70, not 60.
- The correct answer is 24.** **(3.OA.B.5)** By the commutative property, $4 \times 6 = 6 \times 4 = 24$.
- Choice B is correct.** **(3.MD.C.6)** Count the top row: 5 squares. Count the center column below: 2 more squares. Total: $5 + 2 = 7$ unit squares.
- Choice A is correct.** **(3.NF.A.2)** $\frac{1}{4}$ is one part out of four equal parts, so it is at the first tick mark from 0.

Hi, Math Inventor!

◇ 3 practice tests. 3 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. Succeed Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!



What's Inside?



Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



Real-World Applications

Engaging problems that connect math to everyday life.



Step-by-Step Progress

Track improvement and build confidence with every test.



Build Skills & Boost Confidence

Strengthen understanding and feel prepared for test day.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



More Grade 3 Math Resources & Practice Materials

testinar.com/math3



PRACTICE. PREPARE. SUCCEED.