

7

New Mexico

NM MSSA

Grade 3 MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



7 Full-Length
Practice Tests



Standards-Aligned
Math Practice



Detailed Answer Keys
and Explanations



Build Confidence.
Achieve Success.

PREPARE
PRACTICE
SUCCEED



$$\begin{array}{r} 248 \\ + 157 \\ \hline 405 \end{array}$$



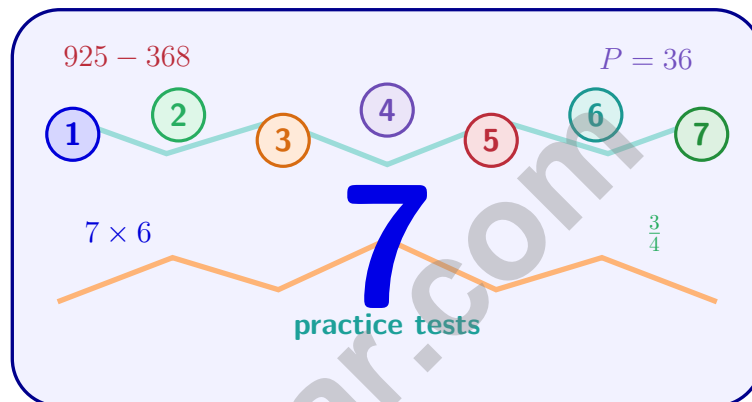
$$4 \times 6 = 24$$

$$2 + 3 = 5$$



7 New Mexico NM-MSSA Grade 3 Math Practice Tests

Standards-Aligned Practice with Review, Answer Keys, and Explanations



Seven complete 30-question practice trails for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the New Mexico NM-MSSA. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

New Mexico has mesa views, desert stars, adobe plazas, mountain trails, and pattern-rich landscapes, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use patterns to guide each decision.

Scout

Find what the problem is asking before you calculate.

Solve

Pick an equation, model, array, graph, or number line.

Prove

Check the answer and explain the thinking clearly.

Seven-trail promise: I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

How to Use This Book

A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For New Mexico students, each trail moves through mesa views, desert stars, adobe plazas, mountain trails, and pattern-rich landscapes: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

Best review habit: A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how New Mexico Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the New Mexico NM-MSSA path.



Scan me!
For more practice
& answers

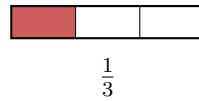
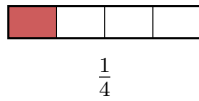
Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	26
★ Practice Test 3	_____	38
★ Practice Test 4	_____	50
★ Practice Test 5	_____	62
★ Practice Test 6	_____	74
★ Practice Test 7	_____	87
Practice Test Answer Keys	_____	99
Practice Test Answers and Explanations	_____	104

1) Which fraction is NOT equivalent to $\frac{1}{3}$?

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

- C. $\frac{2}{8}$
 D. None



2)

Which fraction is smaller?

- A. $\frac{1}{4}$ is smaller
 B. $\frac{1}{3}$ is smaller

- C. They are equal
 D. Cannot tell

Missing Addend: $? + 189 = 506$

3)

Hundreds	Tens	Ones
?	?	?
+	+	+
1	8	9
5	0	6

What is the missing addend?

- A. 317
 B. 307

- C. 406
 D. 395

4) Each part is $\frac{1}{8}$ of a square. How many equal parts are there?

5) Round 325 to the nearest 100.

A. 300

C. 325

B. 320

D. 400

6) Ava cut a candy bar into thirds. She has $\frac{15}{3}$ pieces. How many whole candy bars did she start with?

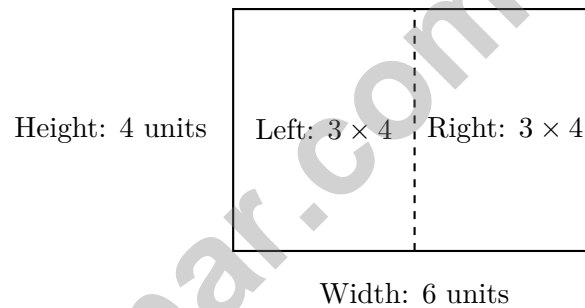
A. 3

C. 15

B. 5

D. 10

7) Look at this rectangle split by a vertical line:



Which distributive equation matches?

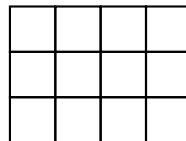
A. $4 \times (3 + 3) = 4 \times 6 = 24$

C. $4 \times 3 \times 3 = 36$

B. $3 + 3 + 4 = 10$

D. $6 + 4 = 10$

8) Look at this rectangle covered exactly by unit squares:



Count the unit squares. What is the area?

A. 7 sq units

C. 14 sq units

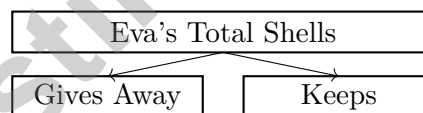
B. 12 sq units

D. 24 sq units



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- 1) When a whole is divided into equal parts, what does the denominator (bottom number) tell us?
- A. How many equal parts the whole is divided into
- B. How many parts are shaded
- C. The color of the shape
- D. How big the whole is
- 2) Ava draws two number lines from 0 to 1. One is split into 3 equal parts; the other is split into 4 equal parts. Which unit fraction represents a smaller piece?
- A. $\frac{1}{3}$
- B. $\frac{1}{4}$
- C. Both are equal
- D. Cannot tell
- 3) Which fraction is equivalent to $\frac{2}{4}$?
- A. $\frac{2}{6}$
- B. $\frac{3}{8}$
- C. $\frac{1}{2}$
- D. $\frac{2}{3}$
- 4) Eva collects 5 bags with 8 shells in each bag. She gives away 12 shells to her friend. How many shells does Eva keep?



$5 \times 8 = 40$ total
Subtract 12

- A. 12
- B. 24
- C. 28
- D. 40



5) What is $40 \div 5$?

A. 7

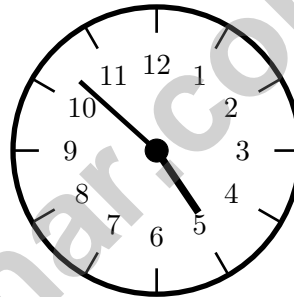
C. 9

B. 10

D. 8

6) What fraction is at the right endpoint of a number line split into 2 equal parts?

7) Look at the clock. What time does it show?



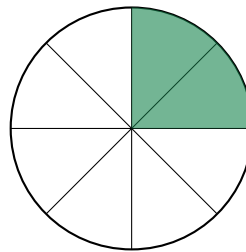
A. 5 : 26

C. 9 : 20

B. 4 : 52

D. 9 : 52

8) A pizza is cut into 8 equal slices. Noah eats 2 slices. What fraction of the pizza does Noah eat?



A. $\frac{1}{8}$

C. $\frac{3}{8}$

B. $\frac{2}{8}$

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



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& answers

1) A picture graph shows apples collected. Red apples: 6 icons (scale: 2 apples per icon). Green apples: 4 icons (scale: 2 apples per icon). How many more red apples than green apples?

 A. 2 C. 6 B. 4 D. 12

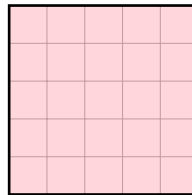
2) On a number line from 0 to 1, the first tick is very small and close to zero. Which unit fraction makes sense?

 A. $\frac{1}{2}$ C. $\frac{1}{8}$ B. $\frac{1}{3}$ D. $\frac{1}{1}$

3) Eli has 35 apples. He uses 5 apples to make a pie. He divides the remaining apples equally among 6 friends. How many apples does each friend get?

 A. 5 C. 7 B. 6 D. 30

4) This rectangle on a grid has how many unit squares?

 A. 20 sq units C. 30 sq units B. 25 sq units D. 35 sq units

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5) All multiples of 5 end in 0 or 5. Look at: 5, 10, 15, 20, 25, 30.

Which number is NOT a multiple of 5?

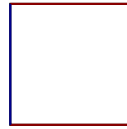
A. 35

C. 50

B. 55

D. 42

Opposite sides



Opposite sides

6)

In this square, the dark-red sides are opposite each other, and the dark-blue sides are opposite each other. Are the opposite sides parallel?

A. No, opposite sides never are

C. Only the red sides are parallel

B. Yes, both pairs of opposite sides

D. Only the blue sides are parallel

are parallel

7) Find the missing number: $? + 256 = 781$. What is the missing addend?



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 turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(3.NF.A.3b)** $\frac{1}{3} = \frac{2}{6}$ and $\frac{2}{8} = \frac{1}{4}$. But $\frac{1}{2}$ is not equivalent to $\frac{1}{3}$.
- Choice A is correct.** **(3.NF.A.3d)** Same numerator: fourths are smaller pieces than thirds. One fourth is smaller than one third.
- Choice A is correct.** **(3.NBT.A.2)** Subtract to find the missing addend: $506 - 189 = 317$. Check: $317 + 189 = 506$.
- The correct answer is 8 equal parts.** **(3.G.A.2)** Eighths mean there are 8 equal parts.
- Choice A is correct.** **(3.NBT.A.1)** The tens digit is 2. Since $2 < 5$, round down: 325 rounds to 300.
- Choice B is correct.** **(3.NF.A.3c)** 15 thirds means $15 \div 3 = 5$ wholes. Each candy bar had 3 thirds.
- Choice A is correct.** **(3.MD.C.7c)** The height is 4 and width is $6 = 3 + 3$. The distributive form is $4 \times (3 + 3) = (4 \times 3) + (4 \times 3) = 12 + 12 = 24$.
- Choice B is correct.** **(3.MD.C.5b)** Count the rows: 3 rows. Count across: 4 unit squares per row. Total: $3 \times 4 = 12$ unit squares cover the rectangle, so area is 12 square units.
- Choice D is correct.** **(3.OA.A.2)** Measurement division: $20 \div 5 = 4$. There are 4 groups of 5 in 20.
- Choice A is correct.** **(3.MD.A.1)** From 2 : 09 to 2 : 41: count up from 9 to 41. That is $41 - 9 = 32$ minutes.
- Choice A is correct.** **(3.OA.B.6)** In a fact family, if $5 \times 7 = 35$, then $35 \div 5 = 7$ (because $7 \times 5 = 35$) and $35 \div 7 = 5$ (because $5 \times 7 = 35$). In division, we find the missing factor from the multiplication fact. Options C and D incorrectly repeat the same number.
- The correct answer is $\frac{1}{2}$.** **(3.NF.A.2a)** The first tick is halfway, or $\frac{1}{2}$.
- Choices A and C are correct.** **(3.OA.D.8)** Multiply tables by chairs per table: $9 \times 4 = 36$. Then add: $36 + 8 = 44$. Choices A and C both correctly compute $(9 \times 4) + 8 = 44$. Choice B adds all three numbers (incorrect order). Choice D applies order of operations wrong. Choice E adds first then multiplies (wrong method).
- Choice C is correct.** **(3.NF.A.3)** $\frac{1}{2}$ and $\frac{3}{6}$ are equivalent, but $\frac{2}{3}$ is larger and does not match.
- Choice C is correct.** **(3.NF.A.2)** $\frac{3}{4}$ means 3 out of 4 equal parts. The distance from 0 to the mark contains exactly 3 parts.
- Choice B is correct.** **(3.MD.B.4)** Total: $2 + 1 + 2 + 2 = 7$ notebooks. Remove 1 with 100 pages: $7 - 1 = 6$ remain.
- Choice C is correct.** **(3.G.A.1)** A diagonal divides a square into two congruent right triangles.
- Choice B is correct.** **(3.MD.B.3)** Read the height of each bar on the vertical axis by counting the grid lines.
- Choice D is correct.** **(3.OA.D.9)** Skip counting by an even number always gives all even numbers.
- Choice B is correct.** **(3.MD.C.7)** Area = $5 \times 4 = 20$ square meters.
- Choice D is correct.** **(3.MD.C.7d)** Rectangle 1: $8 \times 3 = 24$ sq ft. Rectangle 2: $4 \times 2 = 8$ sq ft. Total: $24 + 8 = 32$ sq ft.
- Choice D is correct.** **(3.NBT.A.3)** The chart shows 9 tens and 0 ones, which represents $9 \times 10 = 90$ coins.
- Choice C is correct.** **(3.MD.C.5)** Area is the space inside a shape (measured in square units). Perimeter is the distance around a shape (measured in regular units).
- Choice D is correct.** **(3.OA.A.4)** Think: $6 \times 5 = 30$, so $30 \div 5 = 6$.
- Choice A is correct.** **(3.NF.A.1)** The rectangle is divided into 4 equal parts. Even though the shading might look uneven, one complete part is shaded, which is $\frac{1}{4}$.
- Choice A is correct.** **(3.OA.B.5)** By the distributive property, $3 \times (4 + 5) = 3 \times 4 + 3 \times 5 = 12 + 15 = 27$.
- The correct answer is 450 mL.** **(3.MD.A.2)** Subtract total poured out: $200 + 150 = 350$ mL. Remaining: $800 - 350 = 450$ mL.
- Choice A is correct.** **(3.MD.C.5a)** Shape W is $2 \times 2 = 4$ unit squares. Shape X is $3 \times 1 = 3$ unit squares. Since $4 > 3$, Shape W has more unit squares.
- Choice A is correct.** **(3.OA.A.3)** Each shelf has the same number of games, so multiply the equal groups: $4 \times 7 = 28$ video games.
- Choice D is correct.** **(3.OA.A.1)** The repeated addition $2 + 2 + 2 + 2$ has four 2's added, so it equals $4 \times 2 = 8$.



Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 7 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



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Question
Types



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Math
Applications



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Progress
Tracking



Build Skills
and Boost
Confidence

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- ✓ Fractions & Decimals
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