

4

New Mexico NM MSSA

Grade 3

MATH

PRACTICE TESTS

Standards-Aligned Practice



STANDARDS-ALIGNED

Practice to build skills and boost confidence



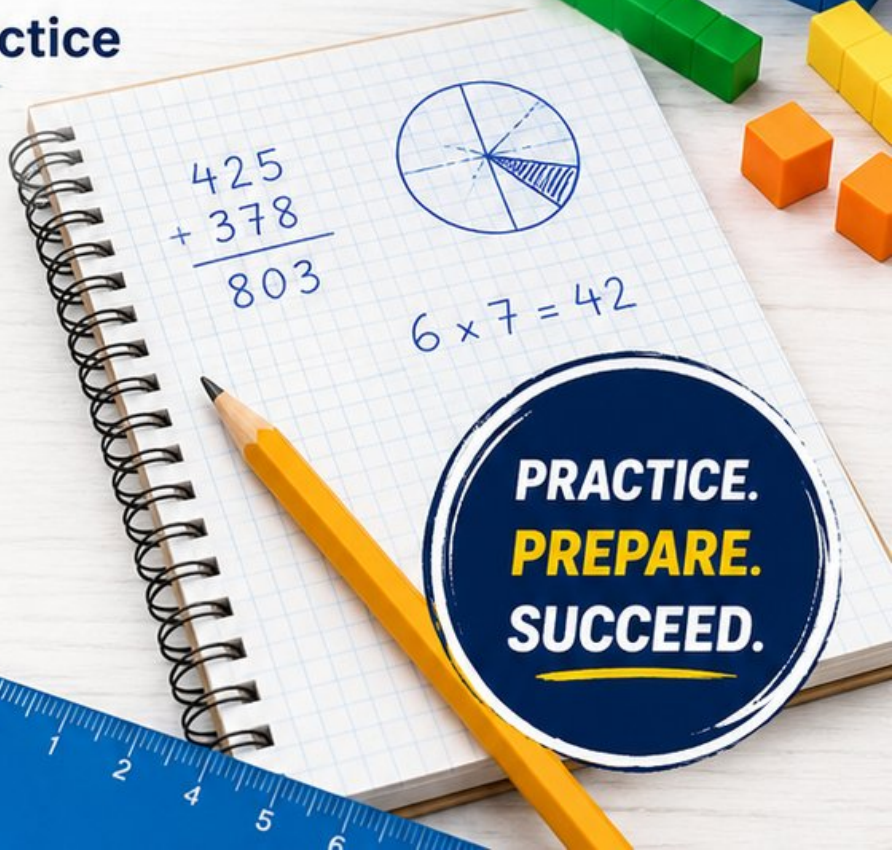
4 FULL-LENGTH TESTS

Realistic questions to prepare for test day

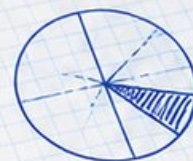


ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



$$\begin{array}{r} 425 \\ + 378 \\ \hline 803 \end{array}$$



$$6 \times 7 = 42$$

PRACTICE.
PREPARE.
SUCCEED.

4 New Mexico NM-MSSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 3 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome to the New Mexico Math Launch

Four missions, careful work, and a stronger Grade 3 thinker



Read the mission. Show the work. Check the answer. Launch again.

To the Grade 3 Mission Leader

This book is a four-mission practice launch for the New Mexico NM-MSSA. Each test gives you a fresh chance to multiply, divide, read graphs, compare fractions, measure, find area, and explain math in a way someone else can follow.

New Mexico has mesas, desert skies, and pueblo roads where patterns can guide the way. Good math uses the same habit: pause, check the details, and move forward with a steady plan.

Notice

Find the numbers, units, and question before choosing a path.

Model

Draw an array, number line, table, or quick equation.

Verify

Ask whether your answer fits the story and the unit.

Launch promise: I will slow down at the important moments, show the work I can, and use every miss as a clue for the next mission.

How to Use This Book

A four-mission routine for steady Grade 3 growth

1. Warm Up the System

Read the review pages first. Remind your brain how equal groups, fractions, clocks, graphs, and area models work.

2. Fly One Mission

Take one complete 30-question test. Keep your work neat enough that you can check it later.

3. Review the Flight

Use the answer key, then pause. A wrong answer is useful when you can name what happened.

4. Repair and Relaunch

Rework a few missed questions before starting the next test. The repair step is where the score begins to move.

A Four-Session Plan

Session 1	Take Test 1 and mark the topics that need attention.
Session 2	Take Test 2 and focus on showing every step clearly.
Session 3	Take Test 3 and watch for units, labels, and two-step problems.
Session 4	Take Test 4 and finish with calm, careful checking.

Best mission habit: After checking answers, write one sentence: “Next time I will pay attention to _____.”



Test Overview

What each Grade 3 math mission asks you to do

Each practice test has 30 questions. Across four tests, you will practice the kind of Grade 3 math thinking used on the New Mexico NM-MSSA: reading carefully, choosing a strategy, doing accurate computation, and explaining enough work to make your answer clear.

Multiple Choice

Look for the best answer. Estimate first when you can, cross out choices that do not fit, and reread the question before you choose.

Open Response

Write the answer and show the reason. A good Grade 3 response may use a drawing, equation, table, number line, or a few clear words.

Math Ideas Inside the Four Tests

- multiplication, division, arrays, missing factors, and two-step word problems
- place value, rounding, addition, subtraction, and multiplying by tens
- unit 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 shape categories

What strong NM-MSSA work looks like: the answer matches the question, the units make sense, and the work is clear enough to check.

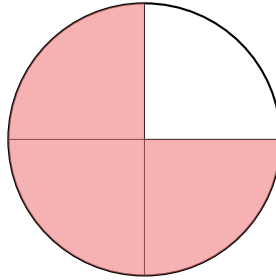


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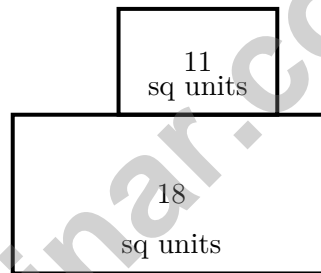
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- 6) A circle is divided into 4 equal parts. If 3 parts are shaded, what fraction of the circle is NOT shaded?



- A. $\frac{1}{4}$ C. $\frac{3}{4}$
 B. $\frac{2}{4}$ D. $\frac{4}{4}$
- 7) A composite shape has areas of 18 sq units and 11 sq units. Find the total area.



- A. 29 sq units C. 7 sq units
 B. 18 sq units D. 198 sq units
- 8) Sam pours juice equally into 5 glasses. He uses 2000 mL total. About how many milliliters are in each glass?
- A. 200 mL C. 600 mL
 B. 400 mL D. 1000 mL



9) Sam has 234 marbles. He finds 167 more marbles. How many marbles does Sam have now?

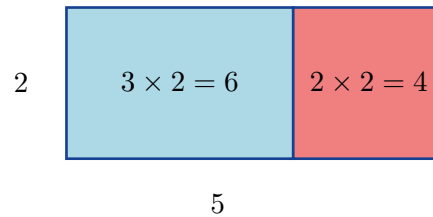
A. 401

C. 400

B. 402

D. 391

10) Look at this area model. Which equation does it show?



A. $2 \times 3 = 6$

C. $3 \times (2 + 2) = 12$

B. $5 + 2 = 7$

D. $2 \times (3 + 2) = 10$

11) Ben says that a circle divided into 6 equal parts has each part as $\frac{1}{5}$. Is this correct?

A. Yes, because $6 - 1 = 5$

C. Yes, because 5 is a unit fraction

B. No, each part is $\frac{1}{6}$

D. No, the circle must have 5 parts

12) If a number line from 0 to 3 is divided into thirds, how many thirds tall is the entire line?



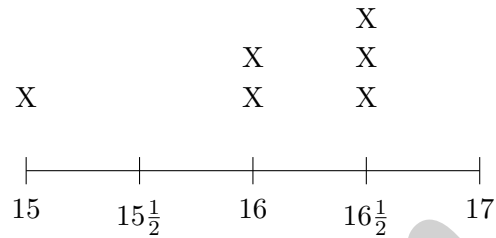
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1) What is $48 \div 6$?

- A. 7
 B. 10

- C. 9
 D. 8

2) Noah recorded bird wing spans in inches with halves: 15, $15\frac{1}{2}$, 16, $16\frac{1}{2}$, 17.



Which wing span is the mode?

- A. 15 inches
 B. 16 inches

- C. $16\frac{1}{2}$ inches
 D. 17 inches

3) On a number line from 0 to 1 divided into 4 equal parts, how many unit fractions $\frac{1}{4}$ fit between 0 and the second tick?

- A. 1
 B. 2

- C. 3
 D. 4

4) Noah is making a rectangular picture frame. The frame is 9 inches wide and 7 inches tall. What is the area inside the frame?

- A. 32 sq in
 B. 56 sq in

- C. 16 sq in
 D. 63 sq in



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5) What is 472 rounded to the nearest 10?

- A. 470 C. 475
 B. 472 D. 500

6) A recipe calls for 3 kg of flour. Noah already has 1500 g. How many more grams does he need?

- A. 1000 g C. 2000 g
 B. 1500 g D. 3000 g

7) A toy store has 75 action figures. They donate 15 to a daycare. The remaining figures are packed equally into 12 boxes. How many figures are in each box?

- A. 5 C. 7
 B. 6 D. 60



8)

Which is true?

- A. $\frac{2}{6} < \frac{2}{8}$ C. $\frac{2}{6} = \frac{2}{8}$
 B. $\frac{2}{6} > \frac{2}{8}$ D. $\frac{2}{8} > \frac{2}{6}$

9) Sam has a rectangular garden that is 12 units long and 2 units wide. What is the area of the garden?

- A. 14 sq units C. 36 sq units
 B. 24 sq units D. 48 sq units



1) Round 756 to the nearest 100.

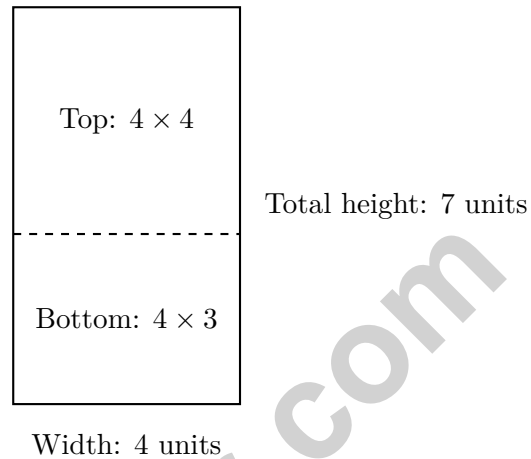
A. 700

C. 756

B. 750

D. 800

2) A rectangle is split horizontally:



What is the correct distributive statement?

A. $4 \times (4+3) = (4 \times 4) + (4 \times 3) = 16 + 12 = 28$

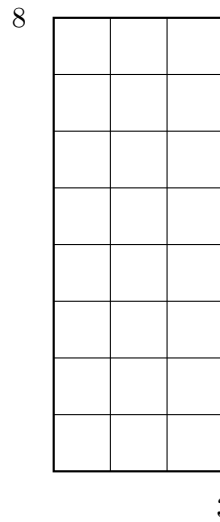
C. $4 \times 7 = 28$

B. $4 + 3 = 7$ units

D. $(4 + 4) + (4 + 3) = 15$



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3)

How many unit squares fit in this tall rectangle?

 A. 11 C. 24 B. 18 D. 83

4) Ava has a rectangular piece of paper. The length is 7 inches and the width is 2 inches. What is the area?

 A. 9 sq in C. 12 sq in B. 14 sq in D. 18 sq in

5) Find $72 \div 9$.



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

- 1) **Choice C is correct.** **(3.OA.C.7)** $80 \div 8 = 10$ because $10 \times 8 = 80$.
- 2) **Choice B is correct.** **(3.MD.C.5)** Area is the space INSIDE a shape. Maria must count or multiply to find all the unit squares, not just the border. $5 \times 3 = 15$ square units.
- 3) **Choice D is correct.** **(3.OA.A.3)** There are 5 equal groups of 4 coins. Multiply: $5 \times 4 = 20$ coins.
- 4) **Choice B is correct.** **(3.MD.B.3)** Ty: $6 \times 5 = 30$. Kim: $8 \times 5 = 40$. Fewer: $40 - 30 = 10$.
- 5) **Choice D is correct.** **(3.OA.A.2)** Putting items into bags of a fixed size is measurement division: How many bags of 6 fit in 18? $18 \div 6 = 3$.
- 6) **Choice A is correct.** **(3.G.A.2)** If 3 out of 4 parts are shaded, then 1 part is not shaded, which is $\frac{1}{4}$.
- 7) **Choice A is correct.** **(3.MD.C.7d)** Add the areas: $18 + 11 = 29$ square units. Choice B (only one part) and C (subtraction) are common errors.
- 8) **Choice B is correct.** **(3.MD.A.2)** Divide: $2000 \div 5 = 400$ mL per glass.
- 9) **Choice A is correct.** **(3.NBT.A.2)** Add: $234 + 167 = 401$. Ones: $4 + 7 = 11$ (write 1, carry 1). Tens: $3 + 6 + 1 = 10$ (write 0, carry 1). Hundreds: $2 + 1 + 1 = 4$.
- 10) **Choice D is correct.** **(3.OA.B.5)** The area model shows a rectangle split into two parts: one part is $3 \times 2 = 6$ and the other is $2 \times 2 = 4$. Using the distributive property: $2 \times (3 + 2) = 2 \times 3 + 2 \times 2 = 6 + 4 = 10$.
- 11) **Choice B is correct.** **(3.NF.A.1)** When a circle is divided into 6 equal parts, each part is $\frac{1}{6}$, not $\frac{1}{5}$. Ben miscounted the total number of parts.
- 12) **The correct answer is 9.** **(3.NF.A.2b)** From 0 to 3, there are 3 whole units. Each unit has 3 thirds, so $3 \times 3 = 9$ thirds total, or $\frac{9}{3} = 3$.
- 13) **Choice D is correct.** **(3.NF.A.3a)** Both circles show the same shaded area. $\frac{1}{2}$ of one circle equals $\frac{2}{4}$ of another equal-sized circle. They are equivalent.
- 14) **Choice C is correct.** **(3.MD.C.7a)** Wide rectangle: $8 \times 3 = 24$ square units.
- 15) **Choice B is correct.** **(3.NF.A.2)** The dot is at the second tick out of four equal parts, so it is $\frac{2}{4}$.
- 16) **Choices A and C are correct.** **(3.G.A.1)** Both squares and rectangles are defined by having exactly 4 right angles. Rhombuses do not require right angles (only equal sides). Trapezoids and general parallelograms do not need right angles.
- 17) **Choice C is correct.** **(3.NBT.A.1)** The ones digit is 5. Since $5 \geq 5$, round up: 555 rounds to 560.
- 18) **Choice A is correct.** **(3.NF.A.3b)** Divide the numerator and denominator of $\frac{4}{6}$ by 2: $\frac{4 \div 2}{6 \div 2} = \frac{2}{3}$.
- 19) **Choice B is correct.** **(3.MD.B.4)** At most $2\frac{1}{2}$ includes weights of 2, $2\frac{1}{4}$, and $2\frac{1}{2}$ ounces. The plot has $1 + 3 + 0 = 4$ X's at those values.
- 20) **Choice D is correct.** **(3.MD.A.1)** $7 : 33 + 3$ hours = $10 : 33$. Then $10 : 33 + 17$ min = $10 : 50$ AM.
- 21) **Choice C is correct.** **(3.MD.C.7)** The grid has 7 columns and 4 rows. Area = $7 \times 4 = 28$ square cm. You can also add: $7 + 7 + 7 + 7 = 28$ (four rows of seven).
- 22) **Choice B is correct.** **(3.NF.A.3)** $\frac{4}{8}$ and $\frac{1}{2}$ both equal half of a whole.
- 23) **Choice B is correct.** **(3.NF.A.3d)** Same numerator: fourths are bigger pieces than sixths. Two fourths is greater than two sixths.
- 24) **Choice D is correct.** **(3.MD.C.5b)** $4 \times 7 = 28$ unit square stones.
- 25) **Choice D is correct.** **(3.OA.D.9)** In the row for 3, the products are 3, 6, 9, 12, going up by 3 each time.
- 26) **Choice D is correct.** **(3.OA.A.1)** The picture shows 3 columns with 4 rectangles in each column. So $3 \times 4 = 12$ rectangles.
- 27) **The correct answer is 3.** **(3.NF.A.2a)** The denominator 3 tells us there are 3 equal parts total.
- 28) **Choice B is correct.** **(3.MD.C.5a)** $2 \times 4 = 8$ unit squares. Option A is 6, C is 4, D is 9.
- 29) **Choice D is correct.** **(3.OA.B.6)** If $28 \div \square = 7$, then $7 \times \square = 28$. Since $7 \times 4 = 28$, the missing number is 4.
- 30) **The correct answer is 48 square units.** **(3.MD.C.7c)** $8 \times 6 = 48$ square units.



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A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 4 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

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