7 New Mexico NM MSSA GRADE 5 MATHEMATICS PRACTICE TESTS

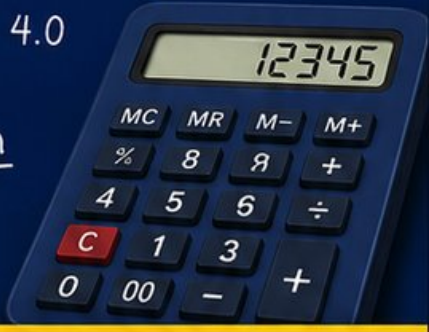
PRACTICE
PREPARE
SUCCEED

Comprehensive Standards-Aligned Review for Strong Grade 5 Math Performance

$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$

$2.4 + 1.6 = 4.0$

$A = \frac{bh}{2}$



7 FULL-LENGTH PRACTICE TESTS
Realistic style questions

STANDARDS-ALIGNED
Covers all Grade 5 standards

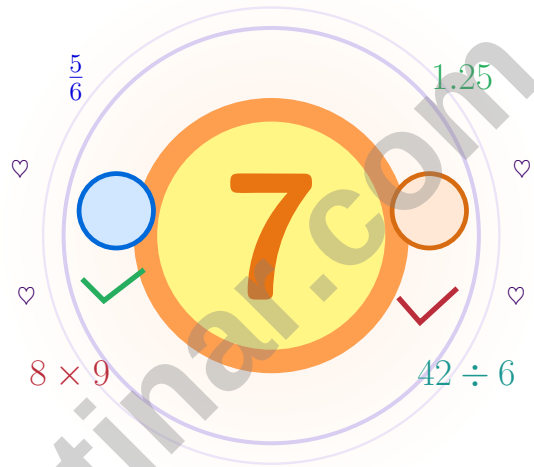
BUILD CONFIDENCE
Target weak areas and improve performance

ACHIEVE SUCCESS
Develop skills, stay prepared, excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. SUCCEED FOREVER. ★

7 New Mexico NM-MSSA Grade 5 Math Practice Tests

Seven practice tests woven into one calm routine



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Land of Enchantment into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari

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New Mexico Grade 5: Practice Path Briefing

A seven-step adventure for New Mexico Grade 5 thinkers

Just for New Mexico Grade 5 Trail Specialists

This practice book is your steady companion for seven tests, not a place to be perfect. Math is full of small enchantments – patterns hiding in numbers, shapes hiding in graphs, all waiting for a curious mind.

Use these seven tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up across seven rounds.

Watch

Watch what the problem actually wants from you.

Choose

Choose the operation, model, or table that fits.

Polish

Check labels, units, and the final word of the question.

A strong habit for New Mexico mathematicians: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

Your Step-by-Step Plan

A simple routine that turns practice into progress

Step 1: Open

Open the warm-up review and use it.

Spend a few minutes waking up your memory before the test begins.

Step 2: Test

Take the test with steady focus.

Work in a calm spot and focus on careful thinking before speed.

Step 3: Reflect

Notice what was sharp and what was shaky.

Circle missed questions and notice which topics keep showing up.

Step 4: Sharpen

Practice the shaky skills before the next round.

Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week New Mexico Rhythm

Week 1	Take Test 1 like a wide enchanted morning.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and lift fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 with calm, careful focus.

Table of Contents

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	**Metric**
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
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1 minute (min) = 60 seconds (sec)	1 week = 7 days
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1) Pattern A: 2, 4, 6, 8, 10. Pattern B: 6, 12, 18, 24, 30. Both patterns follow a rule. Write the rule for Pattern B in terms of Pattern A.

☐ A. Pattern B is 3 more than Pattern A
☐ B. Pattern B is 5 times Pattern A
☐ C. Pattern B is 5 less than Pattern A
☐ D. Pattern B is 3 times Pattern A

2) Which expression represents a number with the digit 5 in the ten-thousands place?

☐ A. 5×10^3
☐ B. 5×10^1
☐ C. 5×10^2
☐ D. 5×10^4

3) Which pair of fractions already has a common denominator?

☐ A. $\frac{1}{6}$ and $\frac{5}{9}$
☐ B. $\frac{1}{2}$ and $\frac{3}{7}$
☐ C. $\frac{2}{3}$ and $\frac{4}{5}$
☐ D. $\frac{3}{8}$ and $\frac{7}{8}$

4) A rectangular prism has dimensions 15 cm, 12 cm, and 10 cm. It is split into two equal non-overlapping parts. What is the original volume, and what is the volume of each part?

☐ A. Original: 1,800 cm^3; each part: 900 cm^3
☐ B. Original: 900 cm^3; each part: 450 cm^3
☐ C. Original: 1,800 cm^3; each part: 1,800 cm^3
☐ D. Original: 37 cm^3; each part: 18.5 cm^3

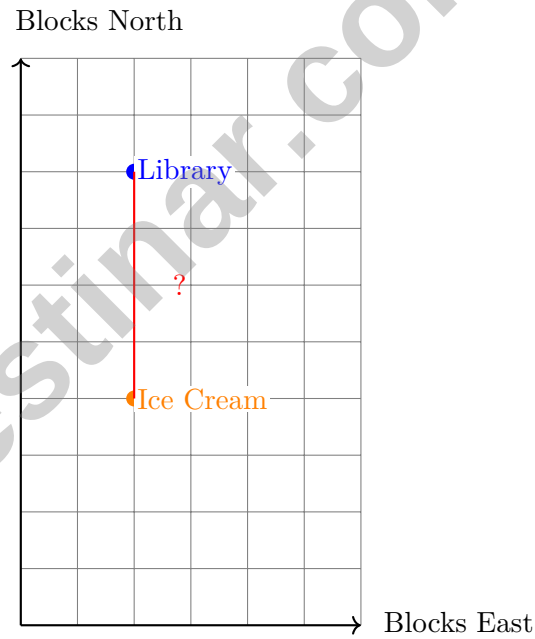
5) Crate A measures 6 centimeters by 6 centimeters by 3 centimeters. Crate B measures 5 centimeters by 5 centimeters by 5 centimeters. Which has the greater volume, and by how much?

☐ A. Crate A by 27 cubic centimeters
☐ B. Crate B by 17 cubic centimeters
☐ C. Crate B by 22 cubic centimeters
☐ D. They have the same volume.

6) A ribbon is $3\frac{1}{3}$ yards long. A decoration uses $1\frac{1}{2}$ times that length. How many yards of ribbon are used?

Record your answer in the space provided.

7) Maria's map shows that the ice cream shop is at point $(2, 4)$ and the library is at point $(2, 8)$. If each square on the map is one city block, how many blocks is the ice cream shop from the library?



☐ A. 2 blocks
☐ B. 8 blocks
☐ C. 6 blocks
☐ D. 4 blocks

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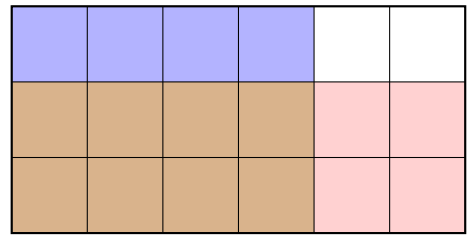
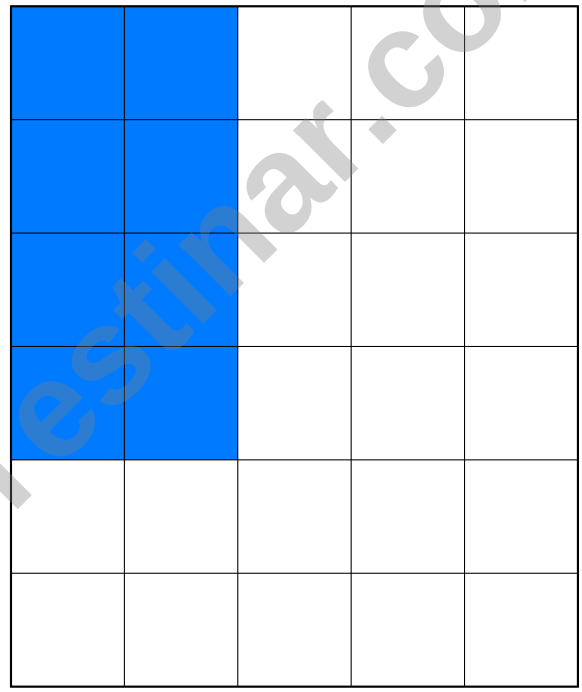
1) Which pair of fractions would have a product that matches the shaded overlap region shown?



☐ A. $\frac{2}{3} \times \frac{3}{6}$
☐ B. $\frac{4}{6} \times \frac{2}{3}$
☐ C. $\frac{3}{6} \times \frac{2}{3}$
☐ D. $\frac{4}{6} \times \frac{3}{6}$

2) Grid model for $\frac{2}{5} \times \frac{4}{6}$. Which statement correctly gives the total and shaded cells?



$\frac{2}{5} \times \frac{4}{6}$

☐ A. Total cells: 20; Shaded: 4
☐ B. Total cells: 30; Shaded: 6
☐ C. Total cells: 30; Shaded: 8
☐ D. Total cells: 20; Shaded: 8

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1) A tray has 6 brownies. Each serving is one half brownie. Which division equation matches the situation?

☐ A. $6 \div \frac{1}{2} = n$
☐ B. $\frac{1}{2} \div 6 = n$
☐ C. $6 \times \frac{1}{2} = n$
☐ D. $6 + \frac{1}{2} = n$

2) Pattern X: $0, 1, 2, 3, 4$. Pattern Y: $0, 3, 6, 9, 12$. What is the 4th ordered pair (X, Y)?

Record your answer in the space provided.

3) What is the product when 4 is scaled by $\frac{1}{2}$?

☐ A. 2
☐ B. 4
☐ C. 6
☐ D. 8

4) Marcus ran $\frac{1}{2}$ mile and then walked $\frac{1}{5}$ mile. How far did he travel total?

☐ A. $\frac{2}{7}$ mile
☐ B. $\frac{7}{10}$ mile
☐ C. $\frac{1}{10}$ mile
☐ D. $\frac{6}{5}$ miles

5) A small closet has dimensions 3 feet by 2 feet by 8 feet. A larger closet has dimensions 4 feet by 3 feet by 8 feet. What is the difference in volume between them?

Small closet	Larger closet
$3 \times 2 \times 8$ ft	$4 \times 3 \times 8$ ft

☐ A. 8 cubic feet
☐ B. 12 cubic feet
☐ C. 48 cubic feet
☐ D. 96 cubic feet

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1) A seed tray measures 9 feet long, 7 feet wide, and 2 feet tall. What is its volume?

☐ A. 63 cubic feet
☐ B. 18 cubic feet
☐ C. 126 cubic feet
☐ D. 14 cubic feet

2) Ellie packed 4 boxes of pencils with 12 pencils in each box and then gave away 8 pencils. Which expression shows how many pencils she has left?

☐ A. $4 \times (12 - 8)$
☐ B. $(4 \times 12) - 8$
☐ C. $4 + (12 - 8)$
☐ D. $(4 + 12) - 8$

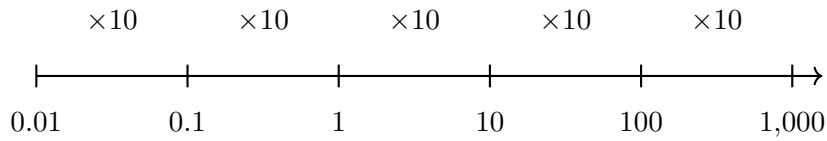
3) A bookstore sells $\frac{1}{5}$ of its book inventory on Monday and $\frac{2}{10}$ on Tuesday. What fraction of the inventory is sold in all?

☐ A. $\frac{3}{10}$
☐ B. $\frac{3}{15}$
☐ C. $\frac{4}{10}$
☐ D. $\frac{5}{10}$

4) A rectangular garden is 18 feet long. If the length is scaled by $\frac{2}{3}$, what is the new length?

☐ A. 6 feet
☐ B. 27 feet
☐ C. 18 feet
☐ D. 12 feet

5) Use the place-value path. Each step to the right means multiply by 10.



What is 0.01×10^3?

☐ A. 0.001
☐ B. 1
☐ C. 10
☐ D. 100

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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice D is correct.** 5.OA.B.3 Pattern B is 3 times Pattern A: $2 \times 3 = 6$, $4 \times 3 = 12$, $6 \times 3 = 18$, $8 \times 3 = 24$, and $10 \times 3 = 30$.
2) **Choice D is correct.** 5.NBT.A.2 $5 \times 10^4 = 50000$ has 5 in the ten-thousands place.
3) **Choice D is correct.** 5.NF.A.2 Both fractions have denominator 8, so they already share a common denominator.
4) **Choice A is correct.** 5.MD.C.5a The original volume is $15 \times 12 \times 10 = 1{,}800$ cubic centimeters. Splitting it into two equal non-overlapping parts gives $1{,}800 \div 2 = 900$ cubic centimeters for each part.
5) **Choice B is correct.** 5.MD.C.5 Find both volumes: Crate A is $6 \times 6 \times 3 = 108$, and Crate B is $5 \times 5 \times 5 = 125$. The difference is 17 cubic centimeters.
6) **The correct answer is 5.** 5.NF.B.5b Convert first: $3\frac{1}{3} = \frac{10}{3}$ and $1\frac{1}{2} = \frac{3}{2}$. Then $\frac{10}{3} \times \frac{3}{2} = \frac{30}{6} = 5$.
7) **Choice D is correct.** 5.G.A.2 Both points have the same x-coordinate (2), so the distance is calculated using the y-coordinates: $8 - 4 = 4$ blocks.
8) **Choice B is correct.** 5.MD.A.1 1 liter = 1,000 milliliters. Multiply: $3.5 \times 1000 = 3500$ mL.
9) **Choice B is correct.** 5.NF.B.7c A meter has 10 tenths, so $1 \div \frac{1}{10} = 10$ fixtures.
10) **The correct answer is $\frac{1}{2}$.** 5.NF.B.5b Multiply across: $\frac{2\times3}{3\times4} = \frac{6}{12}$. Then simplify $\frac{6}{12}$ to $\frac{1}{2}$.
11) **Choice C is correct.** 5.MD.C.5 The known length and height make groups of $12 \times 5 = 60$ cubic centimeters. Since $360 \div 60 = 6$, the width is 6 cm.
12) **Choice A is correct.** 5.OA.B.3 Compare matching values: $3 = 3 \times 1$, $30 = 3 \times 10$, and $300 = 3 \times 100$. Pattern B is 3 times Pattern A.
13) **Choice D is correct.** 5.NBT.A.2 $10^2 = 100$, so $9{,}400 \div 100 = 94$.
14) **Choice A is correct.** 5.MD.B.2 The plot shows 3 students at 15 seconds, 2 students at 20 seconds, 3 students at 25 seconds, and 3 students at 30 seconds. Total: $(15 \times 3) + (20 \times 2) + (25 \times 3) + (30 \times 3) = 250$ seconds.
15) **Choice C is correct.** 5.G.A.1 Points on an axis have a 0 coordinate. A point inside the first quadrant has both coordinates greater than 0. Only $(5, 7)$ has a positive x-coordinate and a positive y-coordinate.
16) **Choice A is correct.** 5.MD.A.1 Total used: 4 feet 8 inches + 3 feet 6 inches = 8 feet 2 inches. Leftover: 10 feet – 8 feet 2 inches = 1 foot 10 inches.
17) **Choice B is correct.** 5.G.B.4 The tick marks on two sides show those sides are equal, making this an isosceles triangle.
18) **Choice A is correct.** 5.MD.C.4 The base has $6 \times 4 = 24$ unit cubes. Since $48 \div 24 = 2$, the prism has 2 layers, so the height is 2 units.
19) **Choice C is correct.** 5.NF.B.7c $\frac{1}{6} \div 2 = \frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$.
20) **Choices A, B are correct.** 5.NBT.B.7 A gives $1.00 - 0.55 = 0.45$, and B gives $2.70 - 2.25 = 0.45$. C gives 0.35, and D gives 0.55.
21) **The correct answer is $4\frac{1}{2}$.** 5.NF.A.1 $\frac{2}{3} = \frac{4}{6}$. $(8 - 4) + (\frac{4}{6} - \frac{1}{6}) = 4\frac{3}{6} = 4\frac{1}{2}$.
22) **Choice C is correct.** 5.NBT.A.2 Multiplying by 10 shifts digits left: 3 to hundreds, 4 to tens, 0 in ones place.
23) **Choice D is correct.** 5.NF.A.2 Use twelfths: $\frac{5}{6} = \frac{10}{12}$ and $\frac{1}{4} = \frac{3}{12}$. Then $\frac{10}{12} - \frac{3}{12} = \frac{7}{12}$.
24) **Choice C is correct.** 5.NBT.A.2 Multiplying by 1,000 moves the decimal three places to the right: $2.8 \times 1{,}000 = 2{,}800$.
25) **Choice C is correct.** 5.NF.A.2 The denominator increased from 7 to 14 (multiply by 2). Multiply the numerator by 2: $5 \times 2 = 10$.
26) **Choice C is correct.** 5.NF.B.5a Since $\frac{7}{8} < 1$, multiplying 5 by it gives a smaller result. $5 \times \frac{7}{8} = \frac{35}{8} = 4.375 < 5$.
27) **Choice D is correct.** 5.NF.B.7c $4 \div \frac{1}{6} = 4 \times 6 = 24$. We can fill 24 buckets.
28) **Choice B is correct.** 5.G.A.2 The ordered pairs should be (2,1), (4,2), and (6,3), so Student 2 is correct.
29) **Choice D is correct.** 5.NBT.A.1 In 87.456, the digit 4 is in the tenths place, which has a value of 0.4 or $\frac{4}{10}$.
30) **Choice D is correct.** 5.G.B.4 This parallelogram has two pairs of parallel sides, but it does not have all right angles like a rectangle and does not have all sides equal like a rhombus.

Dear Student,

⋆ Word problems get easier when you know what to look for. Completing seven tests means you practiced turning stories into math. That is a powerful skill. ⋆

◇ **A smart move:** slow down and translate. Circle the question. Underline the facts. Then choose an operation. ◇

Word-Problem Steps

- **What is asked?** write it in your own words.
- **What is given?** list the important numbers.
- **What operation?** decide and write a quick plan.
- **Does it make sense?** estimate and check.

You've practiced this skill many times—use it confidently on test day.

Email me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Translate and Solve)

PRACTICE TODAY.
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- ✓ On-the-Go Practice

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Every step of the way.