

9

New Mexico

NM MSSA

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



9
FULL-LENGTH
PRACTICE
TESTS

$$2,345 \times 6 = 14,070$$



$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

$$7.2 \div 0.8 = 9$$



$$(12 + 8) \div 4 = 5$$



Build Confidence



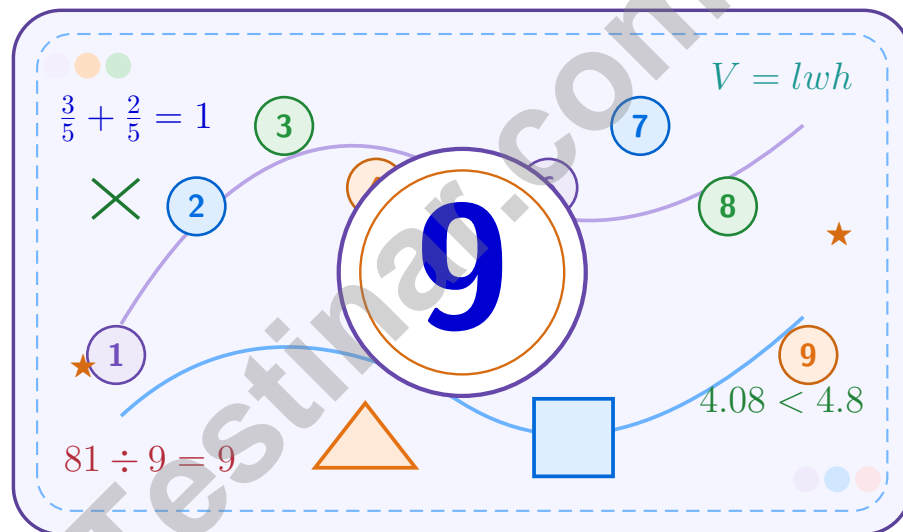
Improve Math Skills



Achieve Success

9 New Mexico NM-MSSA Grade 5 Math Practice Tests

A nine-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Nine full tests, focused skill boosters, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these nine 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 fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: 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.

How to Use This Book

A simple practice routine that turns nine tests into steady growth

A Nine-Session Climb Map

| Session | Mission Focus |
|---------|---|
| 1 | Take Test 1; review place value and operation slips. |
| 2 | Take Test 2; keep work neat and easy to read. |
| 3 | Take Test 3; give extra time to fractions and decimals. |
| 4 | Take Test 4; slow down on word problems and units. |
| 5 | Take Test 5; compare scores and habits with earlier rounds. |
| 6 | Take Test 6; notice which habits are now automatic. |
| 7 | Take Test 7; explain open-ended answers clearly. |
| 8 | Take Test 8; review topics that still need attention. |
| 9 | Take Test 9; finish with calm, careful, confident work. |

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.



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Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the New Mexico NM-MSSA. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

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

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



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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

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Metric

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TIME

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

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

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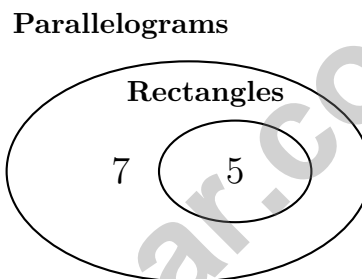
1) Estimate: $14\frac{1}{7} - 8\frac{4}{5}$.

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

2) A classroom cubby has volume 128 cubic inches. Its base is 8 inches by 4 inches. What is its height?

 A. 3 inches B. 4 inches C. 5 inches D. 32 inches

3) A Venn diagram shows rectangles inside parallelograms:



How many parallelograms are outside the rectangle circle?

 A. 5 B. 12 C. 7 D. 2

4) Find: 6×10^4 .

Record your answer in the space provided.

- 5) A rope is $\frac{9}{10}$ meter long. A craftsman uses $\frac{2}{3}$ of the rope for a project. How long is the piece used? Give the answer in simplest form.
- A. $\frac{6}{13}$ meter C. $\frac{3}{5}$ meter
 B. $\frac{18}{13}$ meter D. $\frac{2}{3}$ meter
- 6) Which division equation tells how many $\frac{1}{5}$ parts are in 1 whole?
- A. $1 \div \frac{1}{5} = 5$ C. $\frac{1}{5} \div 5 = \frac{1}{25}$
 B. $5 \div \frac{1}{5} = 25$ D. $5 + \frac{1}{5} = 5.2$
- 7) A composite stage platform is made from two non-overlapping rectangular prisms. Prism A is 6 centimeters long, 2 centimeters wide, and 2 centimeters tall. Prism B is 3 centimeters long, 3 centimeters wide, and 1 centimeter tall. What is the total volume?
- A. 33 cubic centimeters C. 9 cubic centimeters
 B. 24 cubic centimeters D. 45 cubic centimeters
- 8) A class collects donations. Monday: $\frac{1}{3}$ of target, Tuesday: $\frac{1}{4}$ of target. Total collected?
- A. $\frac{7}{12}$ C. $\frac{1}{7}$
 B. $\frac{5}{12}$ D. $\frac{2}{7}$
- 9) A distance is 7×10^5 meters. How many meters is that?
- A. 7000 meters C. 700000 meters
 B. 70000 meters D. 7000000 meters
- 10) A group of friends buys 4 sandwiches for \$6 each and 4 drinks for \$2 each. They pay with a \$50 bill. Which expression shows how much change they should receive?
- A. $50 - (4 \times 6 + 4 \times 2)$ C. $(50 - 4) \times (6 + 2)$
 B. $50 - (4 + 6 + 4 + 2)$ D. $4 \times (50 - 6 - 2)$



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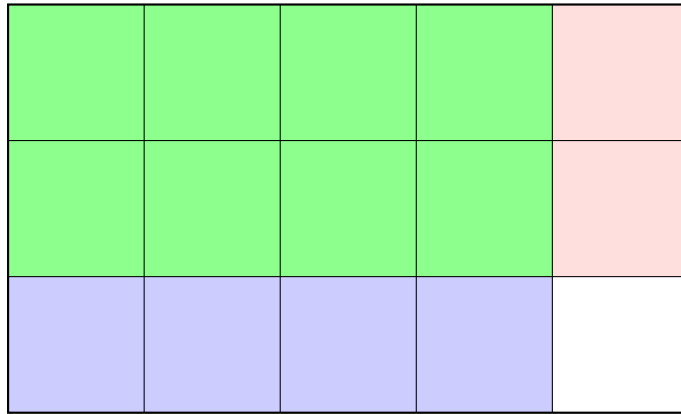
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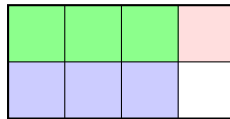


1) Area model for $\frac{4}{5} \times \frac{2}{3}$. What fraction is the shaded overlap?



blue: $\frac{4}{5}$
 red: $\frac{2}{3}$
 green: overlap

- A. $\frac{9}{15}$
 - B. $\frac{4}{8}$
 - C. $\frac{1}{2}$
 - D. $\frac{8}{15}$
- 2) Four fractions are listed: $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$, $\frac{5}{6}$. What is the least common denominator if they are rewritten together?
- A. 48
 - B. 24
 - C. 36
 - D. 12
- 3) Use the area model below to find $\frac{3}{4} \times \frac{1}{2}$.



Record your answer in the space provided.



Scan me

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1) Pattern: 6, 11, 16, 21, ... What's the rule?

- A. Add 5
- B. Multiply by 2
- C. Add 4
- D. Subtract 5

2) A pattern rule doubles the input. If $(5, y)$ is in the pattern, what is y ?

- A. 5
- B. 10
- C. 25
- D. 7

3) In the quadrilateral hierarchy, a square is always what special type of quadrilateral with four right angles?

Record your answer in the space provided.

4) Pattern Epsilon is 1, 3, 5, 7. Pattern Zeta is 4, 12, 20, 28. Which statement describes how each Zeta value is related to the matching Epsilon value?

- A. Multiply Epsilon by 8.
- B. Multiply Epsilon by 4.
- C. Add 3 to Epsilon.
- D. Multiply Epsilon by 8, then subtract 4.

5) Which product is greatest?

- A. $\frac{1}{2} \times \frac{1}{2}$
- B. $\frac{1}{4} \times \frac{1}{2}$
- C. $\frac{1}{3} \times \frac{1}{2}$
- D. $\frac{2}{3} \times \frac{1}{2}$



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 New Mexico scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice A is correct.** **(5.NF.A.2)** $14\frac{1}{7} \approx 14$ and $8\frac{4}{5} \approx 9$. So $14\frac{1}{7} - 8\frac{4}{5} \approx 14 - 9 = 5$.
- Choice B is correct.** **(5.NF.A.2)** The base layer has $8 \times 4 = 32$ square units. Divide the volume by the base area: $128 \div 32 = 4$, so the height is 4 inches.
- Choice C is correct.** **(5.MD.C.5)** The 7 figures in the outer part of the parallelogram circle are parallelograms but not rectangles.
- The correct answer is 60,000.** **(5.NBT.A.2)** Multiplying by a power of 10 shifts the value to a larger place. $6 \times 10,000 = 60,000$. This confirms the answer.
- Choice C is correct.** **(5.NBT.A.2)** $\frac{2}{3} \times \frac{9}{10} = \frac{18}{30}$, which simplifies to $\frac{3}{5}$ meter.
- Choice A is correct.** **(5.NF.B.7c)** A whole divided into 5 equal parts of $\frac{1}{5}$ each is represented by $1 \div \frac{1}{5} = 5$.
- Choice A is correct.** **(5.NF.B.7c)** Find each part first: Prism A is $6 \times 2 \times 2 = 24$ cubic centimeters, and Prism B is $3 \times 3 \times 1 = 9$ cubic centimeters. Because the parts do not overlap, add them: $24 + 9 = 33$ cubic centimeters.
- Choice A is correct.** **(5.NF.A.2)** $\frac{1}{3} + \frac{1}{4}$: common denominator 12. $\frac{1}{3} = \frac{4}{12}$ and $\frac{1}{4} = \frac{3}{12}$. Total: $\frac{7}{12}$.
- Choice C is correct.** **(5.NF.A.2)** $7 \times 10^5 = 7 \times 100,000 = 700,000$ meters.
- Choice A is correct.** **(5.NBT.A.2)** The sandwich cost is 4×6 , and the drink cost is 4×2 . Add those costs first, then subtract the total from 50 to show the change.
- The correct answer is $\frac{1}{8}$.** **(5.NF.B.7c)** $\frac{1}{4} \div 2 = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$.
- Choice D is correct.** **(5.NF.B.7c)** $\frac{2}{5} \times \frac{3}{7} = \frac{6}{35}$. The other products do not equal $\frac{6}{35}$.
- Choice D is correct.** **(5.NF.B.5b)** Start with the parentheses: $8 + 2 = 10$. Then $10 \div 5 = 2$, and subtracting gives $25 - 2 = 23$.
- Choice B is correct.** **(5.OA.A.1)** In an ordered pair (x, y) , the x represents the horizontal distance (how far right) from the origin.
- Choice D is correct.** **(5.NBT.A.2)** The blank must make the product end with exactly 2 zeros. $3 \times 200 = 600$, and 600 has exactly 2 zeros.
- The correct answer is 12.** **(5.MD.A.1)** Convert meters to centimeters before dividing. Since 3 m is 300 cm and each piece is 25 cm, $300 \div 25 = 12$ pieces.
- Choice A is correct.** **(5.MD.A.1)** Convert 3 kg to grams: $3 \times 1000 = 3000$ g. Add: $3000 + 250 = 3250$ g.
- Choice D is correct.** **(5.NBT.B.5)** Multiply: $18 \times 45 = 18 \times (40 + 5) = (18 \times 40) + (18 \times 5) = 720 + 90 = 810$ books.
- The correct answer is $3\frac{1}{4}$.** **(5.NBT.B.5)** Rewrite $4\frac{1}{2} = 4\frac{2}{4}$. Subtract: $(4 - 1) + (\frac{2}{4} - \frac{1}{4}) = 3\frac{1}{4}$.
- Choice C is correct.** **(5.NF.A.1)** $3.5 \times 10 = 35$ mm (move decimal 1 place right).
- Choices A, C are correct.** **(5.NBT.A.2)** A is true because $20 + 1$ creates one extra group of 5. C is true because $100 - 1$ creates one fewer group of 9 than 100 groups. B changes the grouping, and D is equal rather than greater.
- The correct answer is 7.21.** **(5.NBT.B.7)** Align by place value. Hundredths: $6 + 5 = 11$, write 1 carry 1. Tenths: $3 + 8 + 1 = 12$, write 2 carry 1. Ones: $4 + 2 + 1 = 7$. Result 7.21.
- Choice D is correct.** **(5.NBT.B.7)** A square is a special rectangle with all sides equal and all angles equal (90°).
- Choice C is correct.** **(5.MD.C.5a)** Volume = $l \times w \times h = 3 \times 2 \times 2 = 12$ cubic feet.
- Choice C is correct.** **(5.MD.C.5a)** A 3 in the tenths place is worth 0.3, and a 3 in the thousandths place is worth 0.003. Since $0.3 \div 0.003 = 100$, the tenths value is 100 times greater.
- Choice A is correct.** **(5.NBT.A.1)** $1\frac{3}{4} = \frac{7}{4}$ and $2\frac{2}{5} = \frac{12}{5}$. Multiply: $\frac{7}{4} \times \frac{12}{5} = \frac{84}{20} = \frac{21}{5} = 4\frac{1}{5}$.
- Choice B is correct.** **(5.NF.B.5b)** Moving 5 units to the right adds 5 to the x -coordinate: $3 + 5 = 8$. The y -coordinate stays the same, so the new coordinates are $(8, 3)$.
- Choice D is correct.** **(5.G.A.2)** Pairs are $(2, 1)$, $(4, 3)$, $(6, 5)$, $(8, 7)$. The third pair is $(6, 5)$.
- Choice B is correct.** **(5.NBT.A.2)** Multiplying by 100 moves each digit two places to a larger place value. That changes 24.6 to 2,460.
- Choice D is correct.** **(5.NBT.A.3a)** The thousandths place is the third position to the right of the decimal point. In 11.247, the digit 7 is in the thousandths place.



Cheer Squad Final Pep Talk

Hey Math Superstar!

◇ 9 practice tests! That's a LOT of work, and you did it all! I'm cheering so loud right now you can probably hear me through this page. You've earned every clap, every hooray, and every smile. ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 9 times. That's why your confidence is real today. It's not pretend. You earned it, problem by problem. ★

Cheer Squad Roll Call

- **Effort:** 100% SHOWED UP!
- **Heart:** HUGE!
- **Skill:** STRONG and growing!
- **Spirit:** BRIGHT and bold!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I've got this. I've practiced. I'm ready." Tiny self-cheers make a big difference.

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

Jay Daie

Your Math Cheerleader (Go You!)

PRACTICE MORE. ACHIEVE MORE.

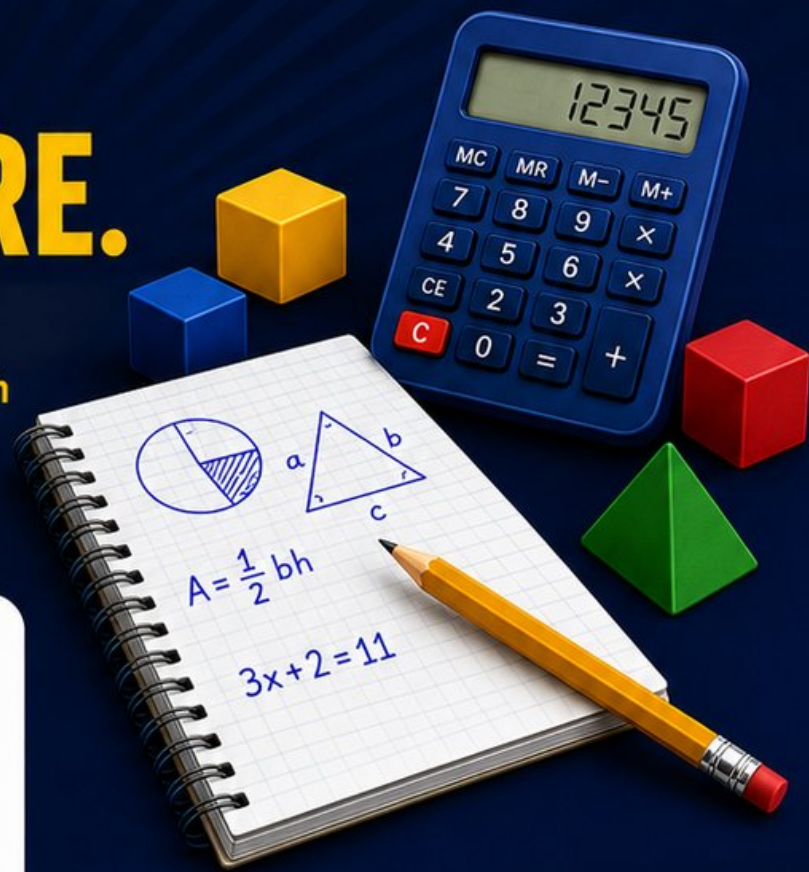
Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

9

**FULL-LENGTH
PRACTICE
TESTS**

- ✓ Realistic.
- ✓ Rigorous.
- ✓ Results-Driven.

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THIS BOOK HELPS YOUR CHILD:



Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

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Identify strengths and target areas with purposeful practice.



Achieve Success

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COVERS ALL ESSENTIAL TOPICS

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



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