



6

New Mexico

NM MSSA



GRADE 5 MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



$$5^2 = 25$$



6 FULL-LENGTH PRACTICE TESTS
Realistic style questions



STANDARDS-BASED PRACTICE
Covers all Grade 5 Math standards

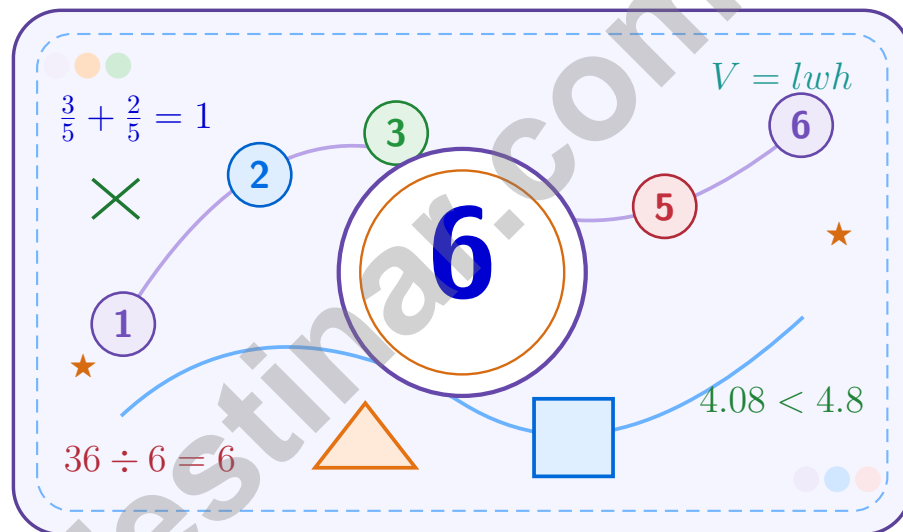


BUILD CONFIDENCE. IMPROVE SCORES.
Target weak areas and achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

6 New Mexico NM-MSSA Grade 5 Math Practice Tests

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



Six full tests, a focused skill booster, 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 six 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 six tests into steady growth

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.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



Scan me

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

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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

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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

1 day = 24 hours (hr) 1 year = 52 weeks



1) Rank from smallest to largest: $\frac{1}{5} \times 25$, $\frac{5}{5} \times 25$, $\frac{9}{5} \times 25$.

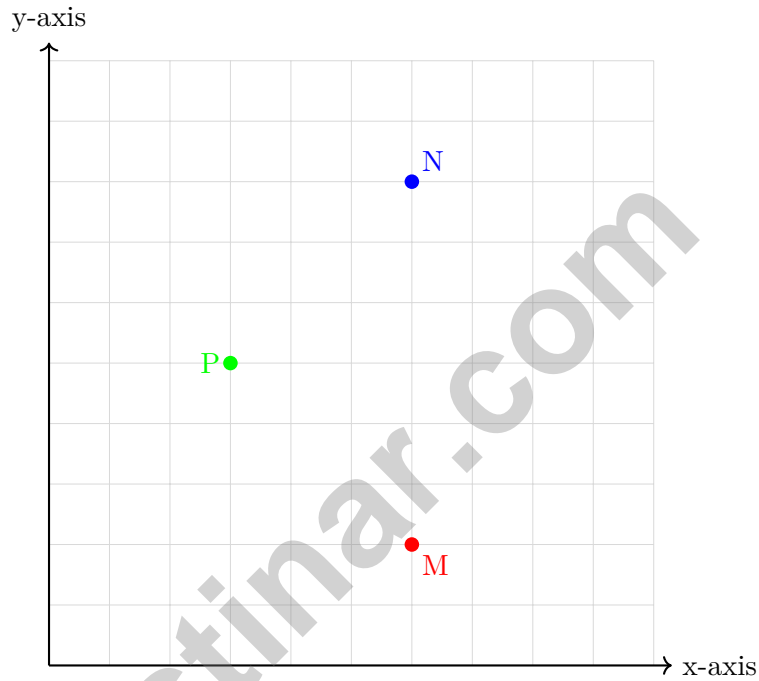
A. $\frac{1}{5}, \frac{5}{5}, \frac{9}{5}$

B. $\frac{9}{5}, \frac{5}{5}, \frac{1}{5}$

C. $\frac{5}{5}, \frac{1}{5}, \frac{9}{5}$

D. All three are equal

2) Which two points have the same x-coordinate?



A. M and N

B. M and P

C. N and P

D. All three

3) A cube is built from 6 layers of unit cubes. Each layer is a 6×6 array. How many unit cubes are in the cube?

A. 36 unit cubes

B. 72 unit cubes

C. 216 unit cubes

D. 432 unit cubes



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1) Compare: $62 \times 8 \square 62 \times 4 \times 2$

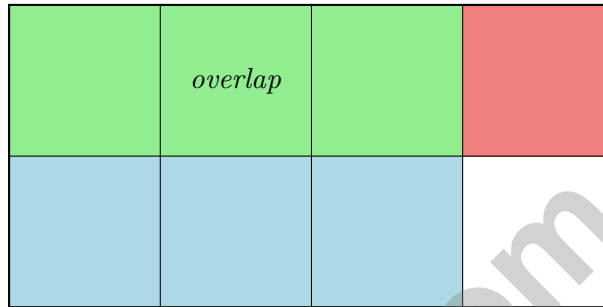
A. >

C. =

B. <

D. Cannot tell

2) The area model below shows $\frac{1}{2} \times \frac{3}{4}$. What fraction is shaded (overlap region)?



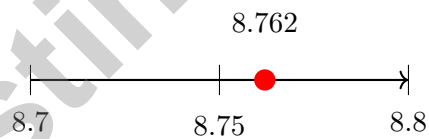
A. $\frac{3}{8}$

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

B. $\frac{3}{6}$

D. $\frac{1}{2}$

3) Maria measures 8.762 meters of ribbon. If she rounds to the nearest tenth for her project, how much does she use?



A. 8.7 m

C. 8.8 m

B. 8.76 m

D. 9 m



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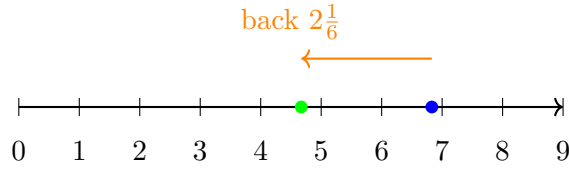
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1) Subtract using the number line method: $6\frac{5}{6} - 2\frac{1}{6}$.

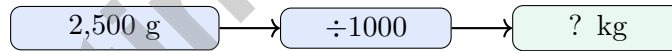


- A. $4\frac{1}{3}$
 C. $4\frac{3}{6}$
 B. $5\frac{1}{6}$
 D. $4\frac{2}{3}$

2) Evaluate the expression: $\{(8 + 2) \times 3\} - 5\} \times 2$

Record your answer in the space provided.

3) A bag of flour weighs 2,500 grams. How many kilograms is that?



- A. 0.25 kg
 C. 25 kg
 B. 250 kg
 D. 2.5 kg

4) Each cookie uses 0.15 cup of flour. How much flour is needed for 8 cookies?

- A. 1.1 cups
 C. 1.35 cups
 B. 1.5 cups
 D. 1.2 cups



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1) Which is the decimal result of $6,300 \div 10,000$?

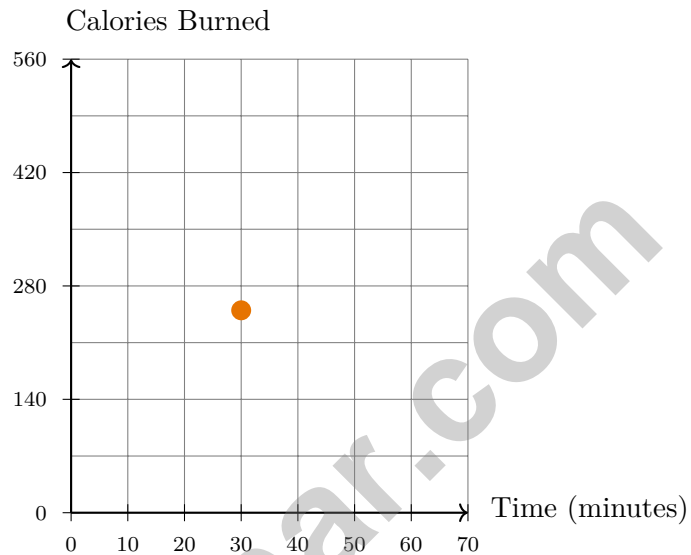
A. 0.63

C. 0.063

B. 6.3

D. 63

2) A fitness tracker logs exercise data. A point at (30, 250) on a time-calories graph means:



A. 30 calories burned in 250 minutes

C. 250 minutes of exercise burned 30

B. 30 minutes of exercise burned 250
calories

D. 280 total minutes and calories

3) Pattern: 40, 36, 32, 28, ... What is the rule and next term?

A. +4; 32

C. $\div 2$; 14

B. -4; 24

D. $\times 2$; 56



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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(5.NF.B.5a)** The products are 5, 25, and 45 respectively. They increase with the factor size.
- 2) **Choice A is correct.** **(5.G.A.1)** Both M at (6, 2) and N at (6, 8) have x-coordinate 6, so they share the same x-coordinate.
- 3) **Choice C is correct.** **(5.MD.C.4)** Each layer has $6 \times 6 = 36$ unit cubes. With 6 layers, the cube has $36 \times 6 = 216$ unit cubes.
- 4) **Choice A is correct.** **(5.NF.B.7c)** $\frac{1}{5} \div 3 = \frac{1}{5} \times \frac{1}{3} = \frac{1}{15}$.
- 5) **Choice A is correct.** **(5.MD.C.5a)** Volume = $l \times w \times h = 8 \times 5 \times 4 = 160 \text{ cm}^3$.
- 6) **Choice D is correct.** **(5.NBT.A.2)** $6,800 \div 100 = 68$. The divisor must be $10^2 = 100$.
- 7) **Choice D is correct.** **(5.NBT.B.5)** Multiply: $213 \times 3 = (200 \times 3) + (10 \times 3) + (3 \times 3) = 600 + 30 + 9 = 639$.
- 8) **Choice D is correct.** **(5.NF.A.2)** $\frac{5}{6}$ is close to 1, and $\frac{1}{3}$ is close to $\frac{1}{2}$. So $\frac{5}{6} - \frac{1}{3}$ is about $1 - \frac{1}{2} = \frac{1}{2}$.
- 9) **Choice B is correct.** **(5.G.B.3)** A rhombus is a quadrilateral with all four sides equal. This figure has that attribute and does not show four right angles, so the most specific name is rhombus.
- 10) **Choice B is correct.** **(5.G.A.2)** With input 0, the multiplication part is $3 \times 0 = 0$, and $0 + 1 = 1$.
- 11) **Choice A is correct.** **(5.NBT.A.2)** A gives 0.62 kg, B gives 6.2 kg, C gives 62 kg. The smallest is 0.62 kg.
- 12) **The correct answer is 1.00.** **(5.NBT.B.7)** Line up decimal points and add place by place. $0.92 + 0.08 = 1.00$. This confirms the answer.
- 13) **Choice C is correct.** **(5.NF.B.7c)** When a small amount is shared, each part gets smaller. One fourth split into 3 equal parts is $\frac{1}{12}$.
- 14) **Choice D is correct.** **(5.NF.B.5b)** $2\frac{1}{4} \times 4 = \frac{9}{4} \times 4 = 9$ pounds.
- 15) **Choice A is correct.** **(5.MD.C.3b)** Multiplication is commutative: $3 \times 5 \times 4 = 5 \times 3 \times 4 = 60$. Changing dimension values changes volume.
- 16) **Choice D is correct.** **(5.NBT.A.2)** The nonzero parts give $5 \times 8 = 40$, which already ends in one zero. Then the two factor zeros make 4,000, so the product has 3 zeros.
- 17) **Choice C is correct.** **(5.NF.A.1)** LCM(5,3,15) = 15. $\frac{1}{5} = \frac{3}{15}$, $\frac{1}{3} = \frac{5}{15}$, $\frac{1}{15} = \frac{1}{15}$. Sum = $\frac{3}{15} + \frac{5}{15} + \frac{1}{15} = \frac{9}{15} = \frac{3}{5}$ of the wall.
- 18) **The correct answer is 20 mi.** **(5.G.A.2)** The x-coordinate is 4, so it shows 4 hours. The y-coordinate is 20, so it shows 20 miles. Accept equivalent interpretations that correctly match 4 with hours and 20 with miles.
- 19) **Choices A, B are correct.** **(5.MD.A.1)** Convert first: 3 L is 3,000 mL. Since $3000 \div 250 = 12$, 12 glasses fill the pitcher; C and D use the wrong count or conversion.
- 20) **Choice C is correct.** **(5.NF.A.2)** $\frac{1}{6} = \frac{2}{12}$. Then $\frac{5}{12} + \frac{2}{12} = \frac{7}{12}$ of the project is complete.
- 21) **The correct answer is 1000.** **(5.NBT.A.2)** 10^3 is a 1 followed by 3 zeros: 1,000.
- 22) **The correct answer is equilateral.** **(5.G.B.4)** The side lengths are 5 cm, 5 cm, and 5 cm, so all 3 sides are equal. The triangle is equilateral.
- 23) **Choice D is correct.** **(5.NBT.A.2)** Dividing by 100 requires moving the decimal 2 places to the left.
- 24) **Choice A is correct.** **(5.NF.B.7c)** $2 \div \frac{1}{4} = 2 \times 4 = 8$ glasses.
- 25) **Choice B is correct.** **(5.OA.A.2)** The scaled bars show the relative sizes of the expressions. The longest bar is labeled $5 \times (6 + 8)$, so that expression has the greatest value.
- 26) **Choice D is correct.** **(5.NF.B.7c)** Start with one unit fraction, $\frac{1}{4}$, and share it into 3 equal parts. Each part is $\frac{1}{4} \div 3 = \frac{1}{12}$ of the whole.
- 27) **Choice D is correct.** **(5.MD.A.1)** Since 1 pound = 16 ounces, multiply 6 by 16: $6 \times 16 = 96$ ounces.
- 28) **Choice C is correct.** **(5.OA.B.3)** Add $\frac{1}{2}$ each time: $\frac{1}{2}, 1, 1\frac{1}{2}, 2, 2\frac{1}{2}, 3, 3\frac{1}{2}, 4$. The 8th term is 4.
- 29) **Choice B is correct.** **(5.NF.B.4)** $10 \times \frac{2}{5} = \frac{20}{5} = 4$.
- 30) **Choice B is correct.** **(5.OA.B.3)** Revenue = Quantity \times Price. So Price = $75 \div 5 = 15$ dollars per item.



Hey there, Master Gamer!

★ Level mastery achieved! You've conquered six complete game worlds, defeating mathematical boss battles and collecting skill power-ups like a professional gamer! Each test level presented unique challenges and hidden obstacles, but you've learned the patterns, mastered the controls, and leveled up your abilities significantly. Your character stats are at maximum capacity! ★

◇ **Here's what elite gamers understand:** mastering difficult games requires repeated playthroughs, learning from defeats, and developing strategic thinking. They study level designs, practice timing, and memorize successful strategies. You've done exactly that through these six test levels! You've learned the mathematical game mechanics, and now you're ready for the championship tournament! ◇

Character Stats Maxed Out

Problem-Solving Power: Leveled up to Expert tier through consistent training!

Strategic Thinking: Unlocked advanced tactical abilities through practice!

Endurance Meter: Can maintain focus through extended gaming sessions!

Boss Battle Ready: Prepared to defeat the final test day challenge!

Gaming wisdom: professional players stay calm during competitive matches because they've practiced under pressure. Test day is your championship match. When you encounter a challenging problem-boss, remember your six training sessions. You've defeated tougher enemies before. Use your best strategies, stay focused, and claim victory!

Want to share your gaming strategies or discuss a particularly clever solution combo? Send your achievements to reza@testinar.com. Let's celebrate your wins!

Reza Nazari & Jay Daie

Your Math Coaches for Strong Starts

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

$$7 \times 6 = 42$$

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



WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



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