

8

FULL-LENGTH

New Mexico

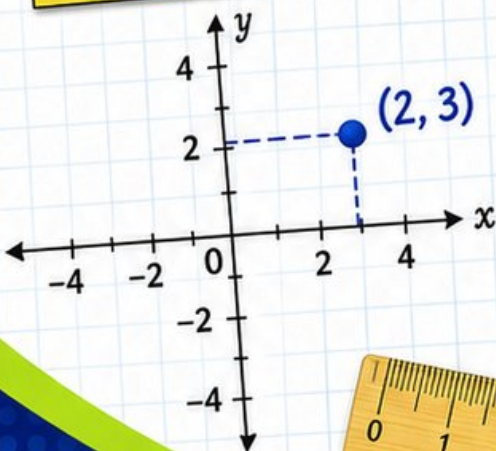
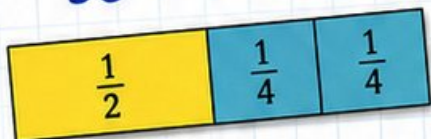
NM MSSA

GRADE 5

MATH PRACTICE TESTS

Mixed Practice Questions with Answer Key
for Students, Parents, and Teachers

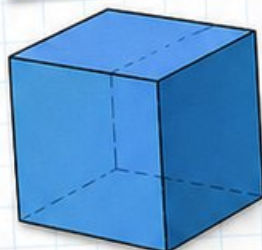
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

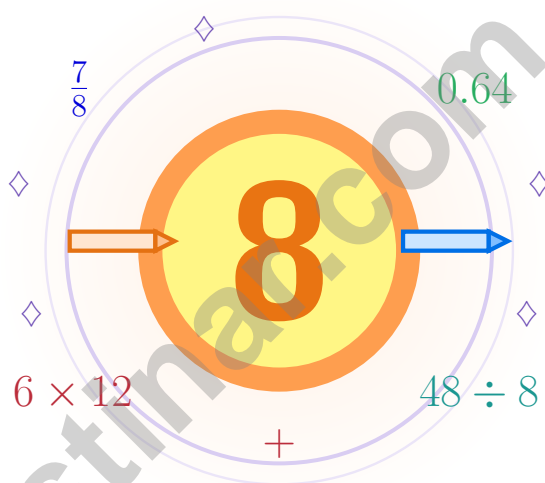
$$7 \times (12 - 5) = 49$$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



8 New Mexico NM-MSSA Grade 5 Math Practice Tests

Seven practice tests woven into one calm routine



Eight full tests, a focused quick 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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Hello, New Mexico – Eight Tests, Steady Growth

Seven chances to read carefully, solve smartly, and grow stronger

To New Mexico Students Who Love a Puzzle

This practice book is your steady companion for eight 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 eight 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.

See

See the question fully before you start the math.

Plan

Pick a strategy that fits the numbers in front of you.

Build

Build the answer step by step, no shortcuts.

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.

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Scan me



How This Book Wants to Help

A simple routine that turns practice into progress

Step 1: Set Up

Pencil ready, distractions gone.

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

Step 2: Work the Test

Take a full test like the real day.

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

Step 3: Look Back

Walk through your answers without rushing.

Circle missed questions and notice which topics keep showing up.

Step 4: Climb Higher

Pick one or two skills to sharpen next.

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



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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

1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

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) Three measurements in millimeters: 45.506, 45.56, 45.065. Which is greatest?

- A. 45.506 C. 45.065
 B. Equal D. 45.56

2) Three-step: Start at 1. Back $\frac{1}{8}$, then back $\frac{1}{4}$. Where?

- A. $\frac{5}{8}$ C. $\frac{3}{12}$
 B. $\frac{3}{4}$ D. $\frac{1}{8}$

3) A composite solid has total volume 210 cubic feet. One rectangular-prism part has volume 126 cubic feet. What is the volume of the other non-overlapping part?

Record your answer in the space provided.

4) A farmer plants rows in a field. Row A has $(20 + 5)$ plants. Row B has $3 \times (20 + 5)$ plants. Without calculating, which is true?

- A. Row A has 3 more plants C. Row B has 3 times as many plants
 B. Row B has 3 more plants D. They have equal plants

5) A ribbon is 8.75 inches long. You cut off a piece that is 2.36 inches. How long is the remaining ribbon?

- A. 6.39 in C. 6.49 in
 B. 5.98 in D. 6.59 in



6) Pattern: $9 \times 10 = 90$; $9 \times 100 = 900$; $9 \times 1,000 = 9,000$. How many zeros are in the product $9 \times 1,000,000$?

A. 4

C. 6

B. 5

D. 7

7) What is $7 \div \frac{1}{2}$?

A. 7

C. 12

B. 10

D. 14

8) The table shows multiples of two denominators. What is their least common denominator?

Denom.	Multiples
7	7, 14, 21, 28, 35, 42, 49
5	5, 10, 15, 20, 25, 30, 35

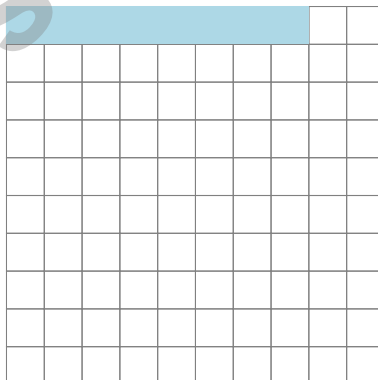
A. 35

C. 21

B. 7

D. 14

9) Use the 10 by 10 grid below. The shaded region shows $\frac{8}{100}$. What is this fraction in simplest form?



A. $\frac{2}{25}$

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

B. $\frac{4}{25}$

D. $\frac{8}{10}$



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1) A store receives 6,400 items in boxes. Each box holds 100 items. How many boxes are there?

A. 0.64

C. 640

B. 6.4

D. 64

2)

40×10 $= 400$	3×10 $= 30$
40×10 $= 400$	3×10 $= 30$

This area model shows the partial products for 43×20 . What is the total?

A. 820

C. 880

B. 860

D. 900

3) Evaluate: $3 + 18 \div 6 - 1$

A. 2

C. 5

B. 4

D. 20

4) Find: $850 \div 10^3$.

Record your answer in the space provided.

5) What is $320 \div 1,000$?

A. 32

C. 0.32

B. 3.2

D. 0.032



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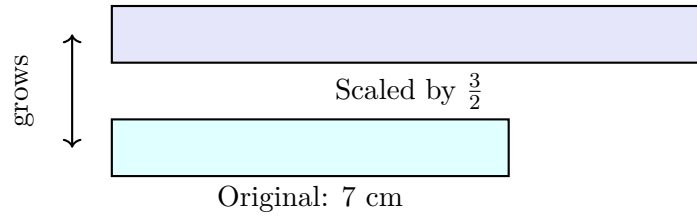
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1)

If a segment of 7 cm is scaled by $\frac{3}{2}$, what is the new length?

- A. $3\frac{1}{2}$ cm C. $10\frac{1}{2}$ cm
 B. 7 cm D. 14 cm

2) Multiply: $\frac{2}{9} \times \frac{3}{4}$

- A. $\frac{1}{6}$ C. $\frac{2}{4}$
 B. $\frac{5}{13}$ D. $\frac{1}{4}$

3) A rectangular concrete block has volume 336 in^3 , length 12 in, and height 7 in. What is the width?

- A. 4 in C. 5 in
 B. 3 in D. 2 in

4) One twelfth of a garden row is divided into 4 equal parts. Which division equation finds each share?

- A. $4 \div \frac{1}{12} = n$ C. $4 + \frac{1}{12} = n$
 B. $\frac{1}{12} \times 4 = n$ D. $\frac{1}{12} \div 4 = n$

5) Two boxes are compared. Box A is 8 feet by 4 feet by 3 feet. Box B is 7 feet by 5 feet by 3 feet. By how much is Box B's volume greater than Box A's volume?

Record your answer in the space provided.



Grade 5 Mathematics Reference Materials

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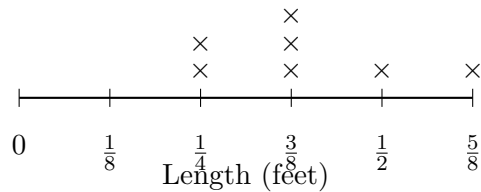
1 hour (hr) = 60 minutes (min) 1 year = 12 months

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



- 1) The line plot shows lengths of string pieces (in feet) for weaving:

String Lengths



Which string length appears most often?

- | | |
|--|--|
| <input type="checkbox"/> A. $\frac{1}{4}$ foot | <input type="checkbox"/> C. $\frac{1}{2}$ foot |
| <input type="checkbox"/> B. $\frac{3}{8}$ foot | <input type="checkbox"/> D. $\frac{5}{8}$ foot |
- 2) Recipe: $2\frac{3}{4}$ cups flour, $1\frac{1}{4}$ cups milk. Total?
- | | |
|------------------------------------|---|
| <input type="checkbox"/> A. 3 cups | <input type="checkbox"/> C. $4\frac{1}{4}$ cups |
| <input type="checkbox"/> B. 4 cups | <input type="checkbox"/> D. $4\frac{3}{4}$ cups |
- 3) Complete the pattern: $1.2 \times 10 = 12$, $1.2 \times 100 = 120$, $1.2 \times 1000 = ?$
- | | |
|---------------------------------|-----------------------------------|
| <input type="checkbox"/> A. 12 | <input type="checkbox"/> C. 1200 |
| <input type="checkbox"/> B. 120 | <input type="checkbox"/> D. 12000 |
- 4) A concert hall has 39 sections with 28 seats in each section. How many seats are in the concert hall?
- | | |
|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> A. 1,080 | <input type="checkbox"/> C. 1,100 |
| <input type="checkbox"/> B. 1,110 | <input type="checkbox"/> D. 1,092 |



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

- Choice D is correct.** (5.NBT.A.3b) All have 45 ones. Tenths: 45.506 has 5, 45.56 has 5, 45.065 has 0. Between first two, hundredths: 45.506 has 0, 45.56 has 6. So $45.56 > 45.506 > 45.065$.
- Choice A is correct.** (5.NF.A.2) $1 - \frac{1}{8} - \frac{1}{4} = \frac{8}{8} - \frac{1}{8} - \frac{2}{8} = \frac{5}{8}$.
- The correct answer is 84 cubic feet.** (5.MD.C.5c) Subtract the known part from the total: $210 - 126 = 84$ cubic feet. That is the missing part's volume.
- Choice C is correct.** (5.MD.C.5c) Row A has one copy of $(20 + 5)$. Row B has 3 copies of that same amount, so Row B has 3 times as many plants.
- Choice A is correct.** (5.NBT.B.7) $8.75 - 2.36 = 6.39$ inches. Requires borrowing from tenths.
- Choice C is correct.** (5.NBT.B.7) The product is 9 followed by the six zeros from 1,000,000, so it has 6 zeros.
- Choice D is correct.** (5.NF.B.7c) $7 \div \frac{1}{2} = 7 \times 2 = 14$.
- Choice A is correct.** (5.NF.B.7c) Since 7 and 5 share no common factors other than 1, their LCM is $7 \times 5 = 35$.
- Choice A is correct.** (5.NF.A.2) Divide both numerator and denominator by 4: $\frac{8}{100} = \frac{2}{25}$.
- Choice A is correct.** (5.NF.B.4b) Butter needed = $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ cup.
- The correct answer is $4\frac{1}{4}$.** (5.MD.B.2) Count the X marks above each length. The length $4\frac{1}{4}$ has 3 X marks, more than any other pencil length.
- Choice A is correct.** (5.G.A.1) The x-coordinate tells how many units right from the origin. For $(5, 2)$, move 5 units right.
- Choice D is correct.** (5.G.A.1) Box 1: $5 \times 3 \times 4 = 60$ cubic inches. Box 2: $6 \times 3 \times 4 = 72$ cubic inches. Combined: $60 + 72 = 132$ cubic inches.
- Choice D is correct.** (5.NBT.A.2) $10^2 = 100$. So $? \times 100 = 7200 \Rightarrow ? = 72$.
- Choice C is correct.** (5.G.B.3) An octagon has 8 sides and 8 vertices. (A pentagon has 5, a hexagon has 6, a nonagon has 9.)
- Choice C is correct.** (5.G.B.3) $6.5 \times 100 = 650$ (move decimal 2 places right). Option C is correct.
- Choice B is correct.** (5.G.B.4) The hierarchy flows one way: Rectangle \rightarrow Parallelogram. Not all parallelograms are rectangles (e.g., a tilted parallelogram without right angles).
- Choice A is correct.** (5.NBT.A.4) For 1.456: tenths digit is 4, hundredths is 5. Since $5 \geq 5$, round the tenths up to 5, giving 1.5. For 1.572: tenths is 5, hundredths is 7. Since $7 \geq 5$, round tenths up to 6, giving 1.6. For 1.654: tenths is 6, hundredths is 5, so it rounds to 1.7. Only A (1.456) rounds to 1.5.
- Choice B is correct.** (5.NF.A.1) $\text{LCM}(3,4) = 12$. $\frac{2}{3} = \frac{8}{12}$ and $\frac{3}{4} = \frac{9}{12}$. $\frac{8}{12} + \frac{9}{12} = \frac{17}{12} = 1\frac{5}{12}$.
- Choices A, B are correct.** (5.NF.B.7c) C gives the wrong quotient, and D uses 4 instead of the reciprocal $\frac{1}{4}$.
- Choice C is correct.** (5.MD.C.5) Choose the operation from the story, then keep the unit with the answer. Subtract: $64.75 - 8.50 = 56.25$ dollars. This confirms the answer.
- Choice A is correct.** (5.MD.C.3b) Set X: $2 \times 2 \times 2 = 8$ cubic units. Set Y: $1 \times 2 \times 1 = 2$ cubic units. Since $8 > 2$, Set X gives the larger volume.
- Choice C is correct.** (5.NF.B.5a) $\frac{7}{6} > 1$, so the product $36 \times \frac{7}{6} = 42 > 36$.
- Choice A is correct.** (5.NF.A.1) Borrow 1 from 7: $6\frac{11}{8} - 4\frac{6}{8} = 2\frac{5}{8}$.
- Choice B is correct.** (5.NF.A.1) The star is 5 units to the right along the x -axis and 7 units up along the y -axis, so the coordinates are $(5, 7)$.
- Choice A is correct.** (5.NF.A.2) $\frac{1}{2} + \frac{1}{3}$: common denominator is 6. $\frac{1}{2} = \frac{3}{6}$ and $\frac{1}{3} = \frac{2}{6}$, so total is $\frac{5}{6}$ cup.
- Choice B is correct.** (5.OA.B.3) Pencils = $5 \times$ Students: $3 \times 5 = 15$, $6 \times 5 = 30$, $9 \times 5 = 45$, $12 \times 5 = 60$.
- The correct answer is 1.** (5.NF.B.6) $\frac{2}{3} \times \frac{3}{2} = 1$ liter.
- The correct answer is $(4, 1)$.** (5.NF.B.6) Start with $(0, 0)$. After one step, A is 4 and B is 1, giving $(4, 1)$.
- Choice C is correct.** (5.G.A.2) There are four $\frac{3}{4}$ -yard pieces, for a total of 3 yards. There are two $\frac{1}{2}$ -yard pieces, for a total of 1 yard. The difference is $3 - 1 = 2$ yards.



Trail Guide's Final Briefing

Brave Trail-Walker,

◇ You've walked all 8 miles of the practice trail. You've seen smooth paths, steep climbs, narrow passes, and clearings. Every step taught you something about yourself and your math skills. ◇

★ **What trail guides know:** the most important thing is to keep moving. Slow steps still get you where you need to go. You've practiced that exact pace, and now your stride is steady. ★

Trail Survey Report

- **Route Knowledge:** STRONG! You recognize different types of math problems.
- **Pacing:** STEADY! You don't rush, and you don't drag.
- **Pack Loaded:** READY! You have all the strategies you need.
- **Trail Confidence:** HIGH! You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route you know. The summit is just one steady walk away.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie
Your Math Trail Guide (Keep Walking)

$45 \div 5 = ?$

PRACTICE TODAY.

$\frac{3}{5} + \frac{1}{10} = ?$



ACHIEVE TOMORROW!



$3^2 + 4^2 = 25$

This book includes **8** full-length **Grade 5** math practice tests to help students master essential skills, build confidence, and achieve success. Each test is carefully designed to reflect real math standards and cover a variety of question types with detailed answer explanations.

$7x - 4 = 17$

$1\frac{1}{2} + 2\frac{1}{3} = ?$

8 FULL-LENGTH MATH PRACTICE TESTS



REALISTIC PRACTICE

Tests mirror Grade 5 math standards and real assessment formats.



ANSWER KEY INCLUDED

Detailed answer explanations help students understand and learn.



BUILD CONFIDENCE & SKILLS

Strengthens problem-solving abilities and reinforces key math concepts.



IMPROVE & TRACK PROGRESS

Identify strengths and focus on areas that need improvement.



ACHIEVE SUCCESS

Boosts test readiness and helps students achieve their best results.

COVERS ALL KEY GRADE 5 MATH TOPICS

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

...and More!



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Great for Students, Parents, and Teachers!

Practice with purpose. Succeed with confidence!