

4

COMPLETE

New Mexico NM MSSA

Grade **MATH**

5

PRACTICE TESTS

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



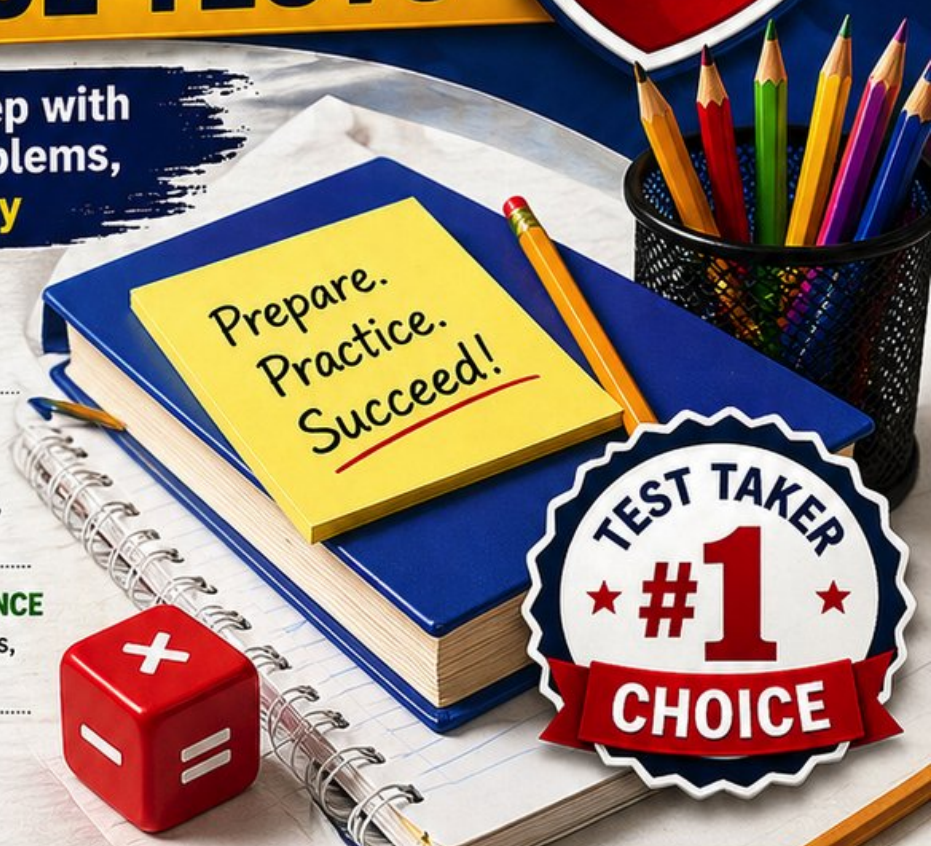
- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



**BUILD STRONG
MATH SKILLS
& TEST READINESS**



**IMPROVE ACCURACY,
SPEED, AND
PROBLEM SOLVING**



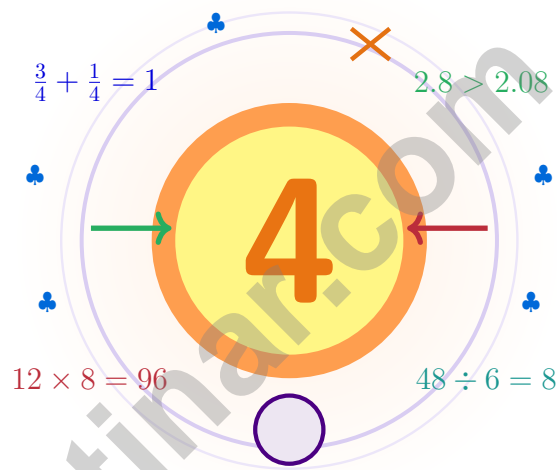
**PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY**



**ALIGNED TO
NEW MEXICO
STATE STANDARDS
(NM MSSA)**

4 New Mexico NM-MSSA Grade 5 Math Practice Tests

Four practice tests woven into one calm, steady routine



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Land of Enchantment build calm, careful, confident habits.

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Four Tests, One Strong New Mexico Mathematician

A four-test mission for curious, careful Grade 5 thinkers

Dear New Mexico Math Mission Crew

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is full of small enchantments – patterns hiding in numbers, shapes hiding in graphs, all waiting for a curious mind.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Read

Read every word and circle key numbers.

Solve

Solve cleanly so your work tells a story.

Reflect

Reflect on what worked and what wobbled.

A strong mission habit for New Mexico: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

Your Four-Step Game Plan

A four-step routine that turns practice into real improvement

Step 1: Notice

Notice the structure: warm-up, test, review, repair.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Practice

Practice one full test in quiet conditions.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

Step 4: Polish

Polish the rough spots before test number two.

Read the explanation, fix the work, and carry that lesson into the very next test.

A Four-Week New Mexico Mission Map

Week	Mission Focus
Week 1	Take Test 1 like a wide enchanted morning – curious eyes everywhere.
Week 2	Take Test 2 and grow word-problem skills and step-showing.
Week 3	Take Test 3 to polish fractions, decimals, and conversions.
Week 4	Take Test 4 with calm, careful, focused work.



Scan me

Four-Test Walkthrough

What these four practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Land of Enchantment for the New Mexico NM-MSSA with the wide, curious focus of a desert sky. The goal is bigger than collecting right answers. Students are practicing how to read carefully, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every day.

Selected-Response Questions

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

Constructed-Response Questions

Students show steps, explain a method, or support an answer with clear math. Strong reasoning matters because it shows how the answer was found.

Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- tables, line plots, patterns, and coordinate points
- geometry and multi-step real-world problem solving

What strong NM-MSSA-style work looks like: accurate math, readable steps, the right labels or units, and a final answer that really matches the question being asked.



Table of Contents

★ Practice Test 1	_____	19
★ Practice Test 2	_____	33
★ Practice Test 3	_____	48
★ Practice Test 4	_____	62
Practice Test Answer Keys	_____	79
Practice Test Answers and Explanations	_____	82

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

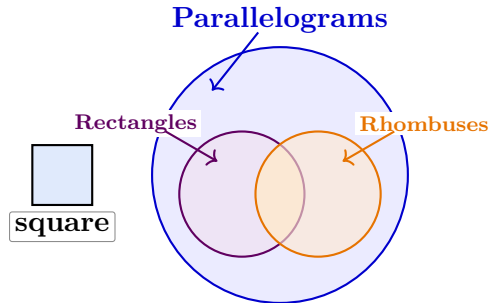
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A square is shown below. A Venn diagram has circles for rectangles, rhombuses, and parallelograms. Where does the square belong?



- A. In rectangles only C. Outside all three circles
 B. In all three circles D. In rhombuses only
- 2) Convert: 5 km = ? m.

Record your answer in the space provided.

- 3) Pattern: $0.4 \times 10 = 4$; $0.4 \times 100 = 40$; $0.4 \times 1,000 = 400$; $0.4 \times 10,000 = ?$
- A. 400 C. 40,000
 B. 4,000 D. 40

- 4) Which number is least: 0.6, 0.55, or 0.605?

Record your answer in the space provided.



5) During a class field trip, 28 students and 4 adults travel by bus. The bus has 40 seats. How many empty seats are there?

A. 12 seats

C. 10 seats

B. 6 seats

D. 8 seats

6) Subtract: $\frac{7}{8} - \frac{1}{3}$

A. $\frac{6}{5}$

C. $\frac{6}{11}$

B. $\frac{13}{24}$

D. $\frac{5}{24}$

7) A sports team has 15 pounds of practice sand. Each training bag holds $\frac{1}{2}$ pound. How many training bags can the team fill?

Each pound makes 2 half-pound bags



Model shows 5 of the 15 pounds; each pound makes 2 bags

A. 18 bags

C. 36 bags

B. 24 bags

D. 30 bags

8) A game graph shows a player's progress. The x-axis shows minutes played, and the y-axis shows score. What does the point (15, 450) mean?

A. minutes played is 450 when score is 15

C. score is 450 when minutes played is 15

B. minutes played and score are both 465

D. score is 15 when minutes played is 450

9) A rectangular prism has volume 324 ft^3 , length 9 ft, and width 9 ft. What is the height?

A. 2 ft

C. 4 ft

B. 3 ft

D. 5 ft



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) What is the missing number? $\frac{3}{8} + ? = \frac{5}{8}$

- A. $\frac{1}{2}$
 B. $\frac{3}{8}$

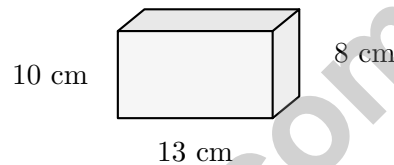
- C. $\frac{1}{4}$
 D. $\frac{1}{8}$

2) What is the value of $12 \times 5 - 10 \div 2 + 3$?

- A. 28
 B. 58

- C. 53
 D. 29

3) A rectangular prism has dimensions 13 cm, 10 cm, and 8 cm. What is its volume?



- A. 840 cubic centimeters
 B. 1040 cubic centimeters

- C. 1440 cubic centimeters
 D. 1560 cubic centimeters

4) Use the place-value chart to compare:

Ones	Tenths	Hundredths	Number
2	3	5	2.35
2	5	3	2.53

Which number is greater?

- A. 2.35
 B. 2.53

- C. They are equal
 D. Cannot tell



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

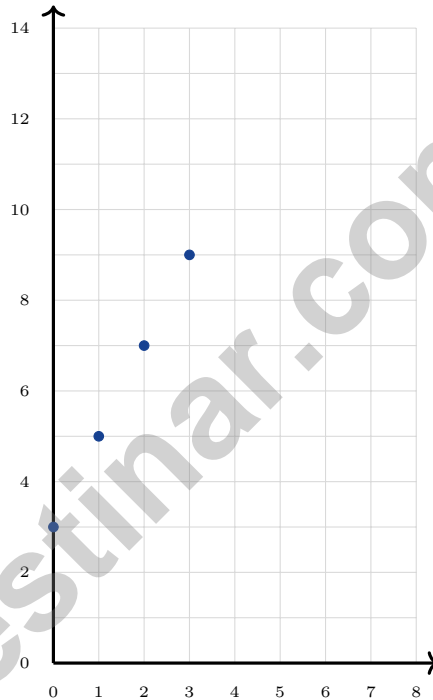
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A recipe calls for $\frac{2}{3}$ cup of sugar and $\frac{1}{3}$ cup of flour. What is the total amount of dry ingredients measured?
- A. $\frac{1}{3}$ cup C. 1 cup
 B. $\frac{1}{2}$ cup D. $\frac{2}{3}$ cup
- 2) A pattern is graphed. Starting point is $(0, 3)$. For each step, x increases by 1 and y increases by 2. What is the next point?



- A. $(5, 11)$ C. $(4, 10)$
 B. $(3, 11)$ D. $(4, 11)$



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

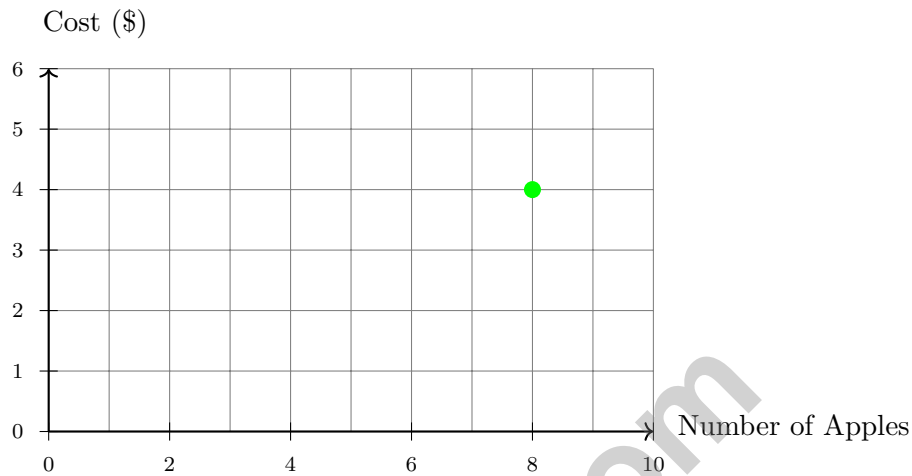
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A grocery store tracks the cost of apples. The graph shows the relationship between the number of apples bought and the total cost. What does the point (8, 4) mean on this graph?



- A. 4 apples cost \$8
- B. 8 apples cost \$4
- C. 12 apples cost \$8
- D. \$4 buys 12 apples
- 2) What is 362×24 ?
- A. 7,688
- B. 8,448
- C. 8,688
- D. 9,688
- 3) A concert venue has 1,250 seats. During the first show, 875 seats were sold. During the second show, 920 seats were sold. How many more seats were sold in the second show?
- A. 45 seats
- B. 50 seats
- C. 55 seats
- D. 60 seats



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.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(5.G.B.4)** A square is a rectangle, a rhombus, and a parallelogram.
- The correct answer is 5000.** **(5.MD.A.1)** $5 \times 1,000 = 5,000$ m. Each kilometer has 1,000 meters, so 5 kilometers has five groups of 1,000 meters.
- Choice B is correct.** **(5.NBT.A.2)** Each multiplier has one more zero, so each product is 10 times as large as the one before it. That moves the decimal one more place right, giving 4,000.
- The correct answer is 0.55.** **(5.NBT.A.3b)** Compare as thousandths: 0.600, 0.550, and 0.605. The least is 0.55.
- Choice D is correct.** **(5.MD.C.5)** Total people: $28 + 4 = 32$. Empty seats: $40 - 32 = 8$ seats.
- Choice B is correct.** **(5.NF.A.2)** LCD = 24. $\frac{7}{8} = \frac{21}{24}$; $\frac{1}{3} = \frac{8}{24}$. $\frac{21}{24} - \frac{8}{24} = \frac{13}{24}$.
- Choice D is correct.** **(5.NF.B.7c)** A half-pound bag is one of 2 equal parts of a pound. So $15 \div \frac{1}{2} = 15 \times 2 = 30$ bags.
- Choice C is correct.** **(5.G.A.2)** The first coordinate, 15, matches the x-axis label: minutes played. The second coordinate, 450, matches the y-axis label: score. So the point means score is 450 when minutes played is 15.
- Choice C is correct.** **(5.MD.C.5)** The base area is $9 \times 9 = 81$ square feet. Since $324 \div 81 = 4$, the height is 4 ft.
- Choice B is correct.** **(5.G.A.2)** If the inputs start at 1, the 5th pair uses input 5. The output is $5 + 4 = 9$, so the pair is (5, 9).
- Choice D is correct.** **(5.MD.C.5)** Use the rectangular-prism volume formula: $6 \times 7 \times 7 = 294$. So the volume is 294 cubic meters.
- The correct answer is 33.** **(5.OA.A.1)** Start with $12 - 4 = 8$. Then $3 \times 8 = 24$ and $18 \div 2 = 9$, so $24 + 9 = 33$.
- Choice D is correct.** **(5.NBT.A.4)** The tenths place is 5. The hundredths place is 4. Since $4 < 5$, keep 5. So 12.542 rounds to 12.5.
- Choice B is correct.** **(5.OA.B.3)** Football sales are double basketball sales: $2 \times 5 = 10$, $2 \times 10 = 20$, $2 \times 15 = 30$, and $2 \times 20 = 40$.
- Choice D is correct.** **(5.NF.B.4b)** Area = $\frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{1}{3}$ square miles.
- Choice C is correct.** **(5.NF.B.7c)** The unit fraction is the amount being shared, so divide $\frac{1}{8}$ by 4. The equation is $\frac{1}{8} \div 4 = n$.
- Choice B is correct.** **(5.NF.A.2)** The denominator 5 is multiplied by 3 to make 15. Multiply the numerator by 3: $\frac{2}{5} = \frac{6}{15}$.
- Choice D is correct.** **(5.NF.B.7c)** $9 \div \frac{1}{4} = 9 \times 4 = 36$. There are 36 bundles.
- Choices A, B are correct.** **(5.MD.C.5a)** Both A and B are correct ways to find volume: multiply length, width, and height, or multiply the area of the base by the height. C and D add lengths, so they do not measure cubic space.
- Choice D is correct.** **(5.NF.B.5a)** $\frac{9}{9} = 1$, so $1 \times 14 = 14$.
- Choice D is correct.** **(5.NF.B.5b)** $5\frac{1}{3} = \frac{16}{3}$ and $1\frac{1}{2} = \frac{3}{2}$. Multiply: $\frac{16}{3} \times \frac{3}{2} = \frac{48}{6} = 8$.
- Choice B is correct.** **(5.NBT.A.2)** $10^3 = 1,000$, so $25 \times 10^3 = 25 \times 1,000 = 25,000$. The answer 2,500 is what you get from 25×100 .
- Choice D is correct.** **(5.NBT.A.1)** In 9.061, the digit 0 is in the tenths place, 6 is in the hundredths place, and 1 is in the thousandths place. So the digit 6 is in the hundredths place.
- Choice B is correct.** **(5.NF.B.7c)** Each whole contains 5 pieces of size $\frac{1}{5}$. With 3 wholes, there are $3 \times 5 = 15$ pieces.
- Choice A is correct.** **(5.G.B.4)** The definition of a trapezoid is a quadrilateral with exactly one pair of parallel sides. All other options are not always true.
- Choice D is correct.** **(5.NF.B.6)** Amount cut off: $\frac{1}{4} \times \frac{8}{10} = \frac{8}{40} = \frac{1}{5}$ meter. Remaining: $\frac{8}{10} - \frac{1}{5} = \frac{8}{10} - \frac{2}{10} = \frac{6}{10}$ meter.
- The correct answer is (6, 3).** **(5.G.A.2)** Start with (0, 0). Then match the next terms from each pattern: (2, 1), (4, 2), and (6, 3). Accept equivalent spacing or comma formatting.
- Choice C is correct.** **(5.NBT.A.2)** $3500 = 3 \times 1000 + 5 \times 100 = 3 \times 10^3 + 5 \times 10^2$.
- Choice A is correct.** **(5.OA.A.2)** The parentheses tell us to divide 6 by 2 first. Then the result is multiplied by 4, matching choice A.



Notes From the Math Gardener

Dear Math Gardener,

◇ Look at how much you've grown! 4 practice tests is like 4 seasons of planting and harvesting. Each problem was a seed, each effort was water, and each "aha!" was sunshine. Your math garden is strong now—and it shows. ◇

★ **What gardeners know:** growth is steady, not sudden. You don't see roots growing, but they are. You don't always feel yourself getting smarter, but you are. The proof is in the questions you can solve today that felt impossible 4 tests ago. ★

Garden Inspection Report

- **Roots (foundation):** DEEP! Your basic skills are solid.
- **Stems (structure):** STURDY! Your problem-solving steps hold up.
- **Leaves (skills):** LUSH! You have many strategies to draw on.
- **Flowers (confidence):** BLOOMING! You believe in your skills.

Gardener's wisdom: keep watering your math garden long after the test. Every habit you built (read carefully, plan, check) will grow with you for years. The test is just one harvest. Your garden keeps growing.

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 Gardener (Keep Growing!)

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

WHAT'S INSIDE:



4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



COVERS ALL GRADE 5 TOPICS

Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



MIXED REVIEW & WORD PROBLEMS

Build problem-solving skills with mixed review questions and real-world word problems.



DETAILED ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



BUILD CONFIDENCE & IMPROVE SCORES

Practice consistently, reduce test anxiety, and achieve your best score!



PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.



Strengthen
Math Skills



Improve
Accuracy
& Speed



Master
Essential
Concepts



Boost
Confidence
on Test Day



Visit testinar.com/math5
for more Grade 5 math resources
and practice materials!



Testinar

Smart Practice. Stronger Results.