

# 3

# West Virginia

# WVGSA

## GRADE 4

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**5 FULL-LENGTH**  
PRACTICE TESTS



**STANDARDS-ALIGNED**  
REVIEW



**MIXED PRACTICE**  
QUESTIONS



**ANSWER KEY**  
INCLUDED

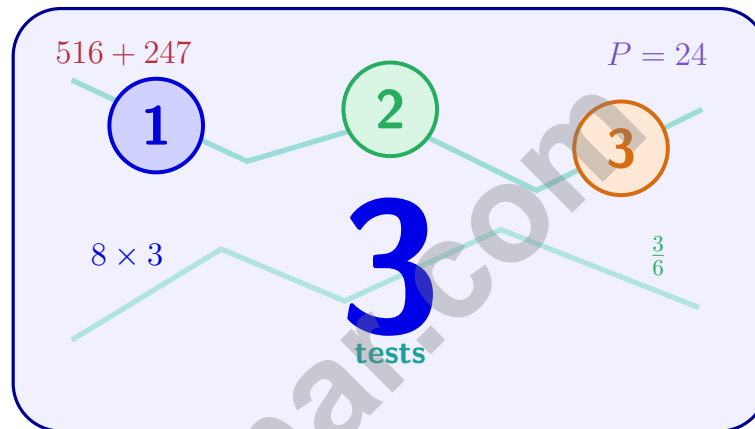
$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



# 3 West Virginia WVGSA Grade 4 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 4 review, West Virginia WVGSA strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

**Jay Daie and Reza Nazari**



# Copyright ©

## Testinar Inc



Published by Testinar Inc

[Testinar.com](http://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 ©*

# Welcome, West Virginia Math Explorer!

Three steady rounds on the Mountain State math route

This book gives you three full Grade 3 practice tests for WVGSA. Each round uses mountain roads, river bends, and strong perseverance to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## West Virginia Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

## How to Use This Book

A ten-session routine for West Virginia WVGSA review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Mountain State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Three tests, 90 questions, and a full WVGSA review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



Scan me!  
For more practice  
& answers

# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	26
★ Practice Test 3	_____	37
Practice Test Answer Keys	_____	48
Practice Test Answers and Explanations	_____	51



5) Compare:  $\frac{8}{10}$  and  $\frac{75}{100}$ . Which is true?

A.  $\frac{8}{10} < \frac{75}{100}$

B.  $\frac{8}{10} = \frac{75}{100}$

C.  $\frac{8}{10} > \frac{75}{100}$

 D. Cannot be compared

6) Find the first four multiples of  $\frac{2}{6}$ .

A.  $\frac{2}{6}, \frac{4}{6}, \frac{6}{6}, \frac{8}{6}$

B.  $\frac{2}{6}, \frac{2}{12}, \frac{2}{18}, \frac{2}{24}$

C.  $\frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}$

D.  $\frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}$

7) A farmer plants 15 rows of corn. Each row has 43 plants. How many corn plants are planted in total?

8) Is 19 prime or composite?

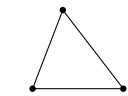
 A. Both

 B. Composite

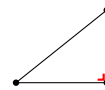
 C. Neither

 D. Prime

9) Look at the two triangles. Which one is a right triangle?



Triangle 1



Triangle 2

 A. Triangle 1

 B. Triangle 2

 C. Both triangles

 D. Neither triangle


Scan me!  
For more practice  
& answers

10) A city library has 287,654 books. How is this number read?

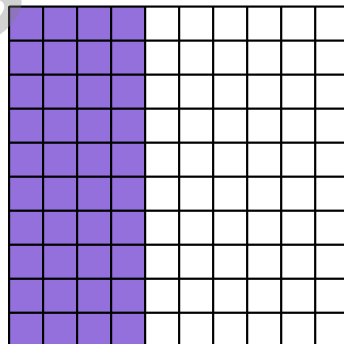
- A. Two hundred eighty thousand, seven hundred fifty-four    
  C. Twenty-eight thousand, seven hundred fifty-four  
 B. Two hundred thousand, eighty-seven thousand, six hundred fifty-four    
  D. Two hundred eighty-seven thousand, six hundred fifty-four

11) A line plot shows student jump distances in eighths of a foot. The data are:  $\frac{2}{8}$  ft,  $\frac{3}{8}$  ft,  $\frac{5}{8}$  ft,  $\frac{2}{8}$  ft,  $\frac{3}{8}$  ft,  $\frac{3}{8}$  ft,  $\frac{5}{8}$  ft. What is the difference between the longest and shortest jump distances?

12) How many  $\frac{1}{4}$ 's are in  $\frac{4}{4}$ ?

- A. 1      C. 4  
 B. 2      D. 8

13) Approximately what decimal is represented by the shaded portion?



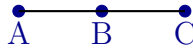
- A. 0.40      C. 0.44  
 B. 0.04      D. 0.60



5) If an angle turns through 45 one-degree angles, what is the measure of the angle?

- A.  $4.5^\circ$                        C.  $90^\circ$   
 B.  $45^\circ$                          D.  $450^\circ$

6) Which statement about the diagram is correct?



- A. Point  $B$  is on segment  $AC$                        C. Point  $C$  is on segment  $AB$   
 B. Point  $A$  is on segment  $BC$                        D. All three points are endpoints
- 7) Tommy eats  $\frac{1}{4}$  of a pizza 6 times a week. How much pizza does he eat per week?
- A.  $\frac{1}{24}$  of a pizza                       C.  $\frac{6}{24}$  of a pizza  
 B.  $\frac{6}{4}$  or  $1\frac{1}{2}$  of a pizza                       D.  $\frac{5}{4}$  of a pizza

8) Which of the following is a prime number?

- A. 9                                       C. 17  
 B. 15                                     D. 21

9) A running path is 4 kilometers long. How many meters is this?

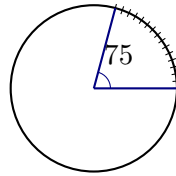
- A. 40                                     C. 4,000  
 B. 400                                    D. 40,000

10) What is  $3\frac{5}{12} + 2\frac{4}{12}$ ?

- A.  $5\frac{8}{12}$                                        C.  $5\frac{9}{12}$   
 B.  $6\frac{1}{12}$                                        D.  $6\frac{2}{12}$



Scan me!  
For more practice  
& answers



1)

This angle shows tick marks from 0 to 75. What is the measure of the angle?

 A.  $74^\circ$  C.  $76^\circ$  B.  $75^\circ$  D.  $150^\circ$ 

2) A box of cereal weighs 6 kilograms. How many grams is this?

 A. 600 C. 60,000 B. 6,000 D. 600,000

3) Which number rounds to 5,000 when rounded to the nearest thousand?

 A. 4,499 C. 5,550 B. 4,449 D. 5,450

4) Which diagram shows a straight angle?

 A. Diagram A C. Diagram C B. Diagram B D. Diagram D

Scan me!  
For more practice  
& answers



## Practice Test Answer Keys

**How to use this section with a Grade 4 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

Testinar.com



## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (M.4.12) The denominator goes from 6 to 12 (multiply by 2). Multiply the numerator by 2 also:  $\frac{3}{6} = \frac{3 \times 2}{6 \times 2} = \frac{6}{12}$ .
- 2) **Choice A is correct.** (M.4.14) Some water spilled from the jug. Subtract the spilled amount from the total:  $2\frac{2}{5} - 1\frac{1}{5} = 1\frac{1}{5}$  gallons remain.
- 3) **Choice D is correct.** (M.4.3) Two steps! Step 1: total players from all three teams:  $18 + 22 + 20 = 60$ . Step 2: divide into 8 groups:  $60 \div 8 = 7$  remainder 4. So each group has 7 players with 4 left over. Check:  $7 \times 8 = 56$ , and  $60 - 56 = 4$ . ✓
- 4) **Choice A is correct.** (M.4.14) One whole is  $\frac{6}{6}$ , plus  $\frac{1}{6}$  more:  $6 + 1 = 7$ , so  $\frac{6}{6} + \frac{1}{6} = \frac{7}{6} = 1\frac{1}{6}$ . ✓
- 5) **Choice C is correct.** (M.4.16) Convert  $\frac{8}{10}$  to hundredths:  $\frac{8}{10} = \frac{80}{100}$ . Now compare:  $\frac{80}{100} > \frac{75}{100}$ .
- 6) **Choice A is correct.** (M.4.15) Counting by  $\frac{2}{6}$ : first  $\frac{2}{6}$ , then  $\frac{4}{6}$ , then  $\frac{6}{6}$ , then  $\frac{8}{6}$ . That's choice A!
- 7) **The correct answer is 645.** (M.4.10) Identify the multiplication: 15 rows with 43 plants each. Calculate:  $15 \times 43 = 15 \times (40 + 3) = 600 + 45 = 645$  plants.
- 8) **Choice D is correct.** (M.4.4) Try the small primes: 19 is odd (not  $\div 2$ ); digits  $1 + 9 = 10$  (not  $\div 3$ ); doesn't end in 0 or 5 (not  $\div 5$ );  $7 \times 2 = 14$ ,  $7 \times 3 = 21$  (no 7). The only factors of 19 are 1 and 19 itself. *Exactly two factors = prime.*
- 9) **Choice B is correct.** (M.4.27) Triangle 2 shows a right angle marker in the form of a small square at one corner, which indicates a right triangle. Triangle 1 has no right angle marker. The answer is B.
- 10) **Choice D is correct.** (M.4.7) Breaking it: 287 thousands ("two hundred eighty-seven thousand") and 654 ones ("six hundred fifty-four") ✓
- 11) **The correct answer is  $\frac{3}{8}$ .** (M.4.22) The shortest jump is  $\frac{2}{8}$  ft and the longest is  $\frac{5}{8}$  ft. The difference is  $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$  foot.
- 12) **Choice C is correct.** (M.4.15) One whole ( $\frac{4}{4}$ ) equals 4 copies of  $\frac{1}{4}$ . So there are 4 fourths in one whole.
- 13) **Choice A is correct.** (M.4.16) Roughly four columns (out of 10) are shaded. That's about 40 out of 100 squares:  $\frac{40}{100} = 0.40 = 0.4$ .
- 14) **Choice B is correct.** (M.4.23) In  $\angle ABC$ , point B is the vertex because it's the middle letter.
- 15) **Choice B is correct.** (M.4.20) There are 96 ounces of dried apples. Each bag holds 8 ounces. Divide:  $96 \div 8 = 12$  bags. He needs 12 bags.
- 16) **Choice C is correct.** (M.4.23) A full circle is a  $360^\circ$  angle—it turns through 360 one-degree angles.
- 17) **The correct answer is A, B.** (M.4.8) Rounding to the nearest ten thousand means we look at the thousands digit of each. A ✓: In 49,999, thousands digit is  $9 \geq 5$ , rounds UP to 50,000. B ✓: In 51,111, thousands digit is  $1 < 5$ , rounds DOWN to 50,000. C: In 55,500, thousands digit is  $5 \geq 5$ , rounds UP to 60,000. D: In 59,999, thousands digit is  $9 \geq 5$ , rounds UP to 60,000. E: In 35,999, thousands digit is  $5 \geq 5$ , rounds UP to 40,000.
- 18) **Choice C is correct.** (M.4.24) The ray points to the  $155^\circ$  mark, which is very close to the  $180^\circ$  straight angle. Since  $155^\circ$  is between  $90^\circ$  and  $180^\circ$ , it's obtuse. The answer is 155 degrees.
- 19) **Choice B is correct.** (M.4.25) On a straight line, angles on both sides add to  $180^\circ$ . Subtract to find the other:  $180^\circ - 123^\circ = 57^\circ$ .
- 20) **Choice C is correct.** (M.4.11) Divide:  $14 \div 8 = 1$  r6, bring down the 5 to get  $65 \div 8 = 8$  r1, bring down the 6 to get  $16 \div 8 = 2$ . Each animal receives 182 pounds of feed.
- 21) **Choice A is correct.** (M.4.9) The correct answer is  $5,003 - 1,245 = 3,758$ , not 4,758. The student did not regroup correctly across the zeros.
- 22) **Choice B is correct.** (M.4.15) On the number line, we make 6 jumps of  $\frac{1}{4}$  each, landing at  $\frac{6}{4} = 1\frac{1}{2}$ . So  $6 \times \frac{1}{4} = 1\frac{1}{2}$ . The answer is  $1\frac{1}{2}$ .
- 23) **Choice D is correct.** (M.4.2) Owen's group has 2 rows of 4 trucks—"2 times as many." Multiply:  $2 \times 4 = 8$  toy trucks.
- 24) **The correct answer is 17.** (M.4.4) Add 3 each time: 2, 5, 8, 11, 14, 17. Figure 6 has 17 squares.
- 25) **Choice C is correct.** (M.4.6) Step 1: name the values. In 7,654, the 6 sits in the hundreds place (worth  $6 \times 100 = 600$ ); the 5 sits in the tens place (worth  $5 \times 10 = 50$ ). Step 2: compare with division:  $600 \div 50 = 12$ . So the 6's value is 12 times the 5's value. *Note:* the digits are different here, so the answer isn't just a power of 10. ✓



Scan me!  
For more practice  
& answers

**From Your Math Family**

---

**Hi, Math Family Member,**

◇ Welcome to a special note from your math family. You finished 3 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

**What Your Math Family Sees**

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

**Family tip:** on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Family

# PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ CONFIDENCE TODAY.  
SUCCESS TOMORROW!

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Prepare for Success

Build the confidence needed to do your best on test day.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



Visit [testinar.com/math4](https://testinar.com/math4)

for additional Grade 4 math resources and practice materials.

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



3 FULL-LENGTH  
PRACTICE TESTS



STANDARDS-  
ALIGNED REVIEW



MIXED PRACTICE  
QUESTIONS



ANSWER KEY  
INCLUDED