

5

West Virginia WVGSA

Standards-Aligned Review with
Mixed Practice and Answer Key



5 West Virginia WVGSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five complete 30-question Grade 4 practice rounds for WVGSA, built around mountain roads, river bends, and strong perseverance, with answer keys and clear explanations for every item.

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Welcome, West Virginia Math Explorer!

Five steady rounds on the Mountain State math route

This book gives you five full Grade 4 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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.



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Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	25
★ Practice Test 3	_____	36
★ Practice Test 4	_____	47
★ Practice Test 5	_____	59
Practice Test Answer Keys	_____	69
Practice Test Answers and Explanations	_____	73

1) Which number sentence is true?

A. $2 \times \frac{1}{5} = \frac{1}{10}$

B. $3 \times \frac{1}{5} = \frac{3}{5}$

C. $4 \times \frac{1}{5} = \frac{4}{20}$

D. $5 \times \frac{1}{5} = \frac{1}{5}$

2) Mia has a string of length $\frac{11}{12}$ yard. She cuts it into two pieces where one piece is $\frac{6}{12}$ yard. Which shows this decomposition?

A. $\frac{6}{12} + \frac{5}{12}$

B. $\frac{4}{12} + \frac{7}{12}$

C. $\frac{5}{12} + \frac{5}{12}$

D. $\frac{8}{12} + \frac{4}{12}$

3) Which is the same as 0.5?

A. $\frac{5}{10}$

B. $\frac{5}{100}$

C. $\frac{50}{10}$

D. $\frac{50}{1}$

4) Look at the base-ten model below. Which number does it represent?



A. 5,373

B. 3,570

C. 5,307

D. 5,037

5) Which shows three multiples of $\frac{1}{4}$ in order?

A. $\frac{1}{4}, \frac{2}{8}, \frac{1}{2}$

B. $\frac{1}{4}, \frac{1}{8}, \frac{1}{12}$

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

D. $\frac{2}{4}, \frac{4}{4}, \frac{8}{4}$



6) Which problem has an answer of $4\frac{1}{2}$?

A. $2\frac{1}{2} + 2$

B. $5\frac{1}{2} - 2\frac{1}{2}$

C. $3\frac{1}{2} + 1\frac{1}{2}$

D. $6 - 2\frac{1}{2}$

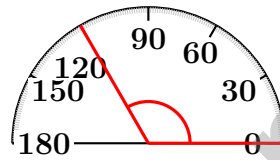
7) Which decimal is between 0.3 and 0.4?

A. 0.25

B. 0.35

C. 0.45

D. 0.05



8)

A student measures an angle with a protractor. The angle opens to the 120-degree mark. What type of angle is this?

A. Acute angle

B. Right angle

C. Obtuse angle

D. Straight angle

9) Mia receives $\frac{3}{4}$ dollar as allowance each week. How much allowance does she receive after 2 weeks?

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

B. $\frac{5}{4}$ dollars

C. $1\frac{1}{2}$ dollars

D. $\frac{2}{4}$ dollars

10) An angle is split into two smaller angles. One measures 30° and the other measures 45° . What is the measure of the whole angle?

A. 15°

B. 65°

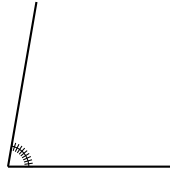
C. 75°

D. 90°



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11)



The angle is marked from 0° to 80° . What is the angle measure?

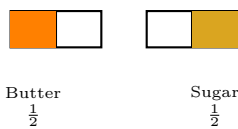
- A. 80°
 C. 79°
 B. 81°
 D. 160°

12) Carlos divides 3,456 pages equally among 4 friends for a reading project. How many pages does each friend read?

13) Which list shows ALL the factors of 48?

- A. 1, 2, 4, 6, 8, 12, 24, 48
 C. 1, 2, 3, 4, 6, 8, 12, 24, 48
 B. 1, 2, 3, 4, 6, 8, 12, 16, 24, 48
 D. 2, 3, 4, 6, 8, 12, 24, 48

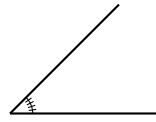
14) A recipe calls for $\frac{1}{2}$ cup of butter and $\frac{1}{2}$ cup of sugar. How much butter and sugar combined?



- A. $\frac{1}{4}$ cup
 C. $\frac{2}{4}$ cup
 B. $\frac{2}{2}$ or 1 cup
 D. $\frac{1}{2}$ cup



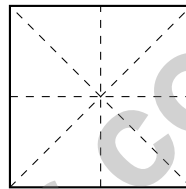
1)



This angle shows tick marks at intervals. What is the measure of the angle?

- A. 45°
 C. 36 one-degree angles
 B. 9°
 D. 54 one-degree angles

2) Look at this square with all lines of symmetry drawn as dashed lines. Are all of these lines correct?



- A. Yes, all are correct
 C. No, the diagonals are not lines of symmetry
 B. No, only the vertical and horizontal are correct
 D. No, the square has no lines of symmetry

3) Which decomposition of $\frac{9}{10}$ is correct?

- A. $\frac{4}{10} + \frac{5}{10}$
 C. $\frac{2}{10} + \frac{8}{10}$
 B. $\frac{3}{10} + \frac{5}{10}$
 D. $\frac{5}{10} + \frac{5}{10}$

4) Solve: $\frac{8}{12} + \frac{3}{12} = ?$

- A. $\frac{11}{24}$
 C. $\frac{5}{12}$
 B. $\frac{11}{12}$
 D. $1\frac{2}{12}$



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5) What is $4\frac{1}{4} + 1\frac{2}{4}$?

A. $5\frac{1}{4}$

B. $5\frac{2}{4}$

C. $5\frac{3}{4}$

D. $6\frac{1}{4}$

6) What is the remainder when 762 is divided by 9?

A. 2

B. 4

C. 6

D. 8

7) A rectangle has an area of 36 square inches. If the length is 9 inches, what is the width?

A. 3 in

B. 4 in

C. 5 in

D. 6 in

8) Which symbol makes this true? $456,100 \square 456,099$

A. $<$

 B. Cannot compare

C. $=$

D. $>$

9) A recipe for cookies uses $\frac{2}{5}$ cup of chocolate chips. If you triple the recipe, how many cups of chocolate chips do you need?



1) A rectangle has an area of 56 square centimeters. The width is 7 centimeters. What is the length?

A. 6 cm

C. 8 cm

B. 7 cm

D. 9 cm

2) Find $\frac{5}{6} + \frac{1}{6}$.



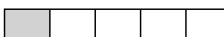
3) At a corner of a square, what is the angle measure?



4) Which fraction bar correctly shows $2 \times \frac{1}{5}$?

A 

B 

C 

D 

A. Picture A

C. Picture C

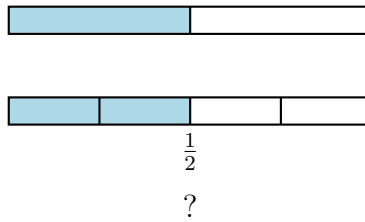
B. Picture B

D. Picture D



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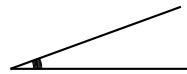
5) Look at the two fraction bars. Both bars are the same length.



Which fraction should replace the question mark?

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

6)



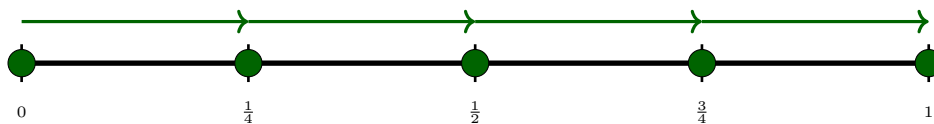
The tick marks are every 2° , and the angle reaches 20° . What is the angle measure?

- A. 10°
 C. 40°
 B. 20°
 D. 2°

7) Jordan read 15 pages in his book. Sophia read 3 times as many pages as Jordan. How many pages did Sophia read?

- A. 18
 C. 60
 B. 30
 D. 45

8)



The number line shows 4 equal jumps of $\frac{1}{4}$. What multiplication is shown?

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



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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** (M.4.15) Let's check each one: A: $2 \times \frac{1}{5} = \frac{2}{5}$, not $\frac{1}{10}$. B: $3 \times \frac{1}{5} = \frac{3}{5}$ ✓. C: $4 \times \frac{1}{5} = \frac{4}{5}$, not $\frac{4}{20}$. D: $5 \times \frac{1}{5} = 1$, not $\frac{1}{5}$.
- Choice A is correct.** (M.4.14) Mia's string is $\frac{11}{12}$ long. One piece is $\frac{6}{12}$, so the other must be $\frac{11}{12} - \frac{6}{12} = \frac{5}{12}$. Check: $6 + 5 = 11$ ✓.
- Choice A is correct.** (M.4.16) Five tenths equals one-half, which is 0.5. The other options don't equal this.
- Choice D is correct.** (M.4.6) Count each block type: 5 thousands, 0 hundreds, 3 tens, 7 ones. Sum: $5,000 + 0 + 30 + 7 = 5,037$. ✓
- Choice C is correct.** (M.4.15) These count by fourths: $1 \times \frac{1}{4}, 2 \times \frac{1}{4}, 3 \times \frac{1}{4}$. Perfect consecutive multiples!
- Choice A is correct.** (M.4.14) Check choice A: $2\frac{1}{2} + 2 = 4\frac{1}{2}$. Correct! Add wholes: $2 + 2 = 4$, and keep the fraction: $\frac{1}{2}$. The others give different answers: B equals 3, C equals 5, D equals $3\frac{1}{2}$.
- Choice B is correct.** (M.4.16) 0.35 fits perfectly between 0.3 and 0.4. The other options fall outside this range.
- Choice C is correct.** (M.4.24) An obtuse angle opens wider than a right angle (more than 90°) but is not a straight line (less than 180°). Since 120° fits perfectly between these benchmarks, the answer is obtuse.
- Choice C is correct.** (M.4.15) In 2 weeks, Mia receives her allowance twice. So we have $2 \times \frac{3}{4} = \frac{6}{4}$ dollars, which simplifies to $1\frac{1}{2}$ dollars.
- Choice C is correct.** (M.4.25) When you split an angle into smaller parts, add them to find the whole: $30^\circ + 45^\circ = 75^\circ$.
- Choice A is correct.** (M.4.23) The degree marks show the angle goes from 0 to 80, so it measures 80° .
- The correct answer is 864.** (M.4.11) Use long division: $3 \div 4 = 0$ r3, bring down the 4 to get $34 \div 4 = 8$ r2, bring down the 5 to get $25 \div 4 = 6$ r1, bring down the 6 to get $16 \div 4 = 4$. Each friend reads **864** pages.
- Choice B is correct.** (M.4.4) Walk through the factor pairs of 48: $1 \times 48, 2 \times 24, 3 \times 16, 4 \times 12, 6 \times 8$. Combine both sides: **1, 2, 3, 4, 6, 8, 12, 16, 24, 48** (10 factors). Choice A misses 3 and 16; choice C misses 16; choice D misses 1.
- Choice B is correct.** (M.4.14) The recipe calls for $\frac{1}{2}$ cup of butter plus $\frac{1}{2}$ cup of sugar. Together: $1 + 1 = 2$ halves, which equals 1 whole cup.
- The correct answer is A, D.** (M.4.22) Statement A is true: the total X marks is $1 + 2 + 3 + 1 = 7$. Statement D is true: the mode is $\frac{4}{8}$ with 3 X marks (the most). The range is $\frac{5}{8} - \frac{1}{8} = \frac{4}{8}$, so B and C are false. There are only 3 X marks at $\frac{4}{8}$, not 6, so E is false.
- Choice C is correct.** (M.4.15) We take 5 copies of $\frac{1}{6}$ and add them together. Multiply the whole number by the numerator: $5 \times \frac{1}{6} = \frac{5 \times 1}{6} = \frac{5}{6}$. The answer is $\frac{5}{6}$.
- Choice A is correct.** (M.4.23) An angle slightly smaller than 90 degrees is still acute (between 0 and 90 degrees).
- Choice D is correct.** (M.4.12) Same denominators? Just compare the numerators! Since $1 < 3$, $\frac{1}{4} < \frac{3}{4}$.
- Choice A is correct.** (M.4.14) Olivia has free time but spends some playing games. Subtract the time spent: $2\frac{4}{8} - 1\frac{2}{8} = 1\frac{2}{8}$ hours of free time left.
- Choice A is correct.** (M.4.26) Look for the small square symbol in the corner — that's geometry's way of saying "this is a right angle!" Only Diagram A has that special marker.
- The correct answer is 99 sq m.** (M.4.21) Area = $11 \times 9 = 99$ sq m.
- Choice D is correct.** (M.4.9) Subtract column by column, regrouping as needed. Starting from the ones: we need to regroup the tens and higher places to complete the subtraction. The answer is **4,775**.
- Choice B is correct.** (M.4.4) Multiples of 6 are: 6, 12, 18, 24, 30, ... Check choice B: $6 \div 6 = 1, 12 \div 6 = 2$. All divide evenly. ✓
- Choice D is correct.** (M.4.28) A regular hexagon (6 equal sides) is balanced six ways. Three lines pass through opposite corners, and three pass through the middle of opposite sides. The answer is **6** lines of symmetry.
- Choice D is correct.** (M.4.7) Thousands and hundreds match. Compare the tens place: $2 < 5$, so $3,425 < 3,450$ ✓
- Choice C is correct.** (M.4.27) A right triangle is identified by its one right angle, which measures exactly 90 degrees. The other two angles must be acute. The answer is C.



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Hi, Strong Climber!

◇ You climbed all 5 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

Guide's tip: on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Trail Guide

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

Ideal 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.



Track Progress

Measure growth across multiple practice tests.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



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 & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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



5 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included

A+