

8

West Virginia

WVGSA

GRADE 4

PRACTICE TESTS



1

$2 \times 3 = 6$

3

5

$2 \times 3 = 6$

2

4



**Standards-Aligned Review with
Mixed Practice and Answer Key**

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 West Virginia WVGSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight 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.

Jay Daie and Reza Nazari



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Welcome, West Virginia Math Explorer!

Eight steady rounds on the Mountain State math route

This book gives you eight 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?

Eight tests, 240 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 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 6–8	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!
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& answers

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Classroom Supplies

Grade	Books
Grade 3	18
Grade 4	24
Grade 5	30

1)

The table shows books in each grade. If they combine all books and divide equally among 9 classrooms, how many books does each classroom get?

- A. 7 C. 8
 B. 9 D. 6

2) Which number sentence is false?

- A. $\frac{2}{8} = \frac{1}{4}$ C. $\frac{3}{7} = \frac{6}{14}$
 B. $\frac{6}{10} = \frac{3}{5}$ D. $\frac{2}{3} = \frac{7}{12}$

3) A pitcher holds 64 fluid ounces. How many pints is this?

- A. 2 C. 8
 B. 4 D. 16

4) A rectangular poster is 12 inches long and 8 inches wide. How much paper does it cover (what is its area)?



11) Which number rounds to 9,000 when rounded to the nearest thousand?

- A. 8,499 C. 9,450
 B. 8,401 D. 9,600

12) An acute angle measures less than how many degrees?

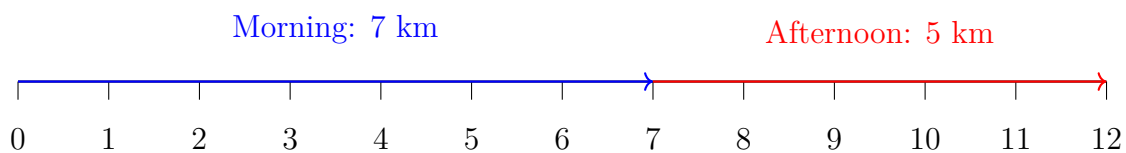
13) A garden path is $\frac{10}{12}$ meter long. After rain, $\frac{4}{12}$ meter washed away. How much remains?

- A. $\frac{14}{12}$ meters C. $\frac{6}{24}$ meter
 B. $\frac{6}{12}$ meter D. $\frac{4}{12}$ meter

14) Select the TWO rotations that both equal 180° .

- A. $\frac{1}{4}$ of a full turn
 B. A half turn
 C. $\frac{2}{3}$ of a full turn
 D. The minute hand from 12 to 6
 E. The minute hand from 12 to 3

15) A number line shows distances in kilometers. A walker travels from 0 km to 7 km in the morning, then 5 km more in the afternoon. What is the final distance from the start?



- A. 2 km C. 12 km
 B. 7 km D. 14 km



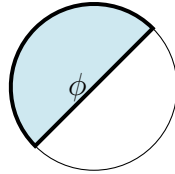
1) In the number 3,817, the digit 8 represents which of these?

A. 8 ones

C. 8 hundreds

B. 8 tens

D. 8 thousands



2)

The shaded region in the circle shows angle ϕ . Which fraction describes this angle?

A. $\frac{1}{2}$ of the circle

C. $\frac{1}{4}$ of the circle

B. $\frac{1}{3}$ of the circle

D. $\frac{2}{3}$ of the circle

3) Round 26,734 to the nearest hundred.

4) What is 19×22 ?

A. 418

C. 392

B. 380

D. 456



5) A watermelon weighs 6 kilograms. How many grams does it weigh?

A. 60

C. 6,000

B. 600

D. 60,000

6) If an angle of 99° is divided equally into three parts, what is the measure of each part?

A. 33°

C. 66°

B. 50°

D. 99°

7) How many $\frac{1}{8}$'s are in $\frac{7}{8}$?

A. 1

C. 8

B. 7

D. $\frac{1}{7}$

8) Mia had $\frac{9}{10}$ gallon of paint and used $\frac{4}{10}$. How much is left?

9) Round 55,555 to the nearest ten thousand.

A. 50,000

C. 56,000

B. 55,000

D. 60,000



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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 C is correct.** (M.4.3) Read the table for the totals, then combine. Step 1: $18 + 24 + 30 = 72$ books in all. Step 2: share among 9 classrooms: $72 \div 9 = 8$ books each.
- Choice D is correct.** (M.4.12) Check D: $\frac{2}{3}$ with denominator 12 would be $\frac{2 \times 4}{3 \times 4} = \frac{8}{12}$, not $\frac{7}{12}$. False! A, B, and C are all true equivalent fractions.
- Choice B is correct.** (M.4.19) Since 1 pint = 16 fluid ounces, divide: $64 \div 16 = 4$ pints. The answer is **4** pints.
- The correct answer is 96 sq in.** (M.4.21) Poster area = $12 \times 8 = 96$ sq in.
- Choice B is correct.** (M.4.15) Three groups of $\frac{2}{6}$: $3 \times \frac{2}{6} = \frac{6}{6}$.
- Choice A is correct.** (M.4.14) The container started full and some juice was served. Find how much was served by subtracting what's left from what started: $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$ liter of juice was served.
- Choice B is correct.** (M.4.22) Count how many times $\frac{1}{8}$ appears in our data: it shows up **3** times.
- Choice C is correct.** (M.4.28) A slanted parallelogram leans to one side and has different side lengths next to each other. Unlike the equilateral triangle (3 lines), rectangle (2 lines), and isosceles triangle (1 line), this shape has zero symmetry. The answer is A slanted parallelogram with unequal adjacent sides.
- Choice B is correct.** (M.4.15) The numerator 9 tells us exactly how many tenths we have. So $\frac{9}{10} = 9 \times \frac{1}{10}$, which means we have **9** tenths.
- Choice D is correct.** (M.4.4) Apply "add 12" to input 8: $8 + 12 = 20$.
- Choice C is correct.** (M.4.8) In option C (9,450), the hundreds digit is $4 < 5$, so round DOWN to **9,000** ✓. Any number from 8,500 to 9,499 rounds to 9,000.
- The correct answer is 90.** (M.4.23) An acute angle is less than **90** degrees.
- Choice B is correct.** (M.4.14) The path started at $\frac{10}{12}$ meter. Rain washed away $\frac{4}{12}$ meter. What's left: $10 - 4 = 6$ twelfths, or $\frac{6}{12}$ meter.
- The correct answer is B, D.** (M.4.23) Choice B: A half turn is $\frac{1}{2} \times 360^\circ = 180^\circ$ ✓. Choice D: The minute hand from 12 to 6 is a half turn, also **180** ✓. Choice A: $\frac{1}{4} \times 360^\circ = 90^\circ$. Choice C: $\frac{2}{3} \times 360^\circ = 240^\circ$. Choice E: 12 to 3 is one-quarter, or 90° .
- Choice C is correct.** (M.4.20) The number line shows the walker goes 7 km in the morning and 5 km in the afternoon. Add: $7 + 5 = 12$ km. The final distance is **12** kilometers.
- Choice A is correct.** (M.4.11) Use long division: $2 \div 7 = 0$ r2, bring down the 5 to get $25 \div 7 = 3$ r4, bring down the 2 to get $42 \div 7 = 6$, bring down the 0 to get $0 \div 7 = 0$. The answer is **360**.
- Choice C is correct.** (M.4.1) "3 times as many" is a multiplication clue. Make 3 groups of the 5 green marbles: $5 \times 3 = 15$ red marbles. Choice C is the equation that shows this.
- Choice B is correct.** (M.4.15) Marcus reads $\frac{3}{12}$ of the book each day for 4 days. We multiply: $4 \times \frac{3}{12} = \frac{12}{12} = 1$ whole book.
- Choice D is correct.** (M.4.7) From the chart: ten-thousands: 4, thousands: 0 (omit), hundreds: 5, tens: 0 (omit), ones: 6 → "forty thousand, five hundred six" ✓
- Choice A is correct.** (M.4.14) Check both decompositions in choice A by adding numerators. First way: $6 + 4 = 10$, so $\frac{6}{12} + \frac{4}{12} = \frac{10}{12}$ ✓. Second way: $5 + 5 = 10$, so $\frac{5}{12} + \frac{5}{12} = \frac{10}{12}$ ✓. Both ways break $\frac{10}{12}$ apart differently but equal the same total. *Why other options fail:* B's second pair sums to $11/12$; C's second sum is $11/12$; D's second sum is only $9/12$.
- Choice C is correct.** (M.4.24) The second ray points directly to the 135° mark on the scale. Since 135° sits between the 90° and 180° benchmarks, it's obtuse. The answer is **135** degrees.
- The correct answer is 9.** (M.4.4) Think: "8 times what equals 72?" Since $8 \times 9 = 72$, the answer is **9**. (Knowing this also tells us that 8 and 9 are factors of 72.)
- Choice C is correct.** (M.4.6) The 7 in the thousands place is worth 7,000. The 7 in the ones place is worth 7. Since $7,000 \div 7 = 1,000$, the answer is **1,000** times. ✓
- Choice B is correct.** (M.4.16) In the decimal 0.72, the first number after the decimal point is 7 (tenths place). The second is 2 (hundredths place).



Hi, Math Champion!

◇ Look what you did! 8 full practice tests. That's hundreds of math problems. You started as a learner. You are now a math athlete. ◇

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- **Speed:** STRONG! You move at the right pace.
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Champion tip: on test day, walk in proud. You trained for this. You are ready!

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

Jay Daie

Your Math Coach

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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

PERFECT FOR:

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- ✓ Homework & Review
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- ✓ Skill Reinforcement

★ **CONFIDENCE IN MATH.
SUCCESS FOR LIFE.**

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.



Academic Success

Strengthen skills needed for future learning.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
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- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
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