

7

West Virginia

WVGSA

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$

7 West Virginia WVGSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Mountain State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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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For more practice
& answers

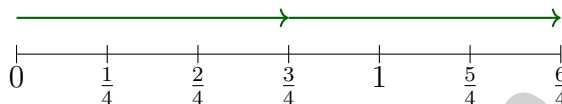
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1) A factory starts with 200 toy cars. They sell 50 cars. Then they pack the remaining cars into boxes of 6. How many complete boxes can they fill?

- A. 24 C. 26
 B. 33 D. 25

2) Use the number line to find $2 \times \frac{3}{4}$.



- A. $\frac{5}{4}$ C. $\frac{3}{4}$
 B. $\frac{6}{4}$ or $1\frac{1}{2}$ D. $\frac{8}{4}$ or 2

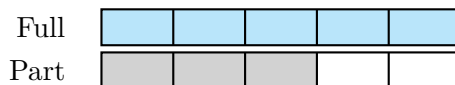
Th	H	T	O
5	2	3	4

3)

This place-value chart shows 5,234. If we add 3,456, what digit appears in the hundreds place of the sum?

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

4) Two representations of the same improper fraction:



This shows a mixed number. Which equals this decomposition?

- A. $1\frac{3}{5} = \frac{5}{5} + \frac{3}{5}$ C. $2\frac{1}{5} = \frac{10}{5} + \frac{1}{5}$
 B. $1\frac{2}{5} = \frac{5}{5} + \frac{2}{5}$ D. $\frac{8}{5} = \frac{2}{5} + \frac{5}{5}$

5) The rule is “add 7.” If the first term is 5, what is the third term?

A. 12

C. 22

B. 26

D. 19

6) A baker has $3\frac{2}{5}$ pounds of almonds. She uses $2\frac{1}{5}$ pounds in a recipe. How many pounds of almonds are left?

7) Mason organized his trading cards by place value. He has 8 cards in the thousands group and 8 cards in the tens group. Which statement is true?

A. The thousands cards have a value 1,000 times the tens cards.

C. The values are equal.

B. The tens cards have a value 10 times the thousands cards.

D. The thousands cards have a value 100 times the tens cards.

8) A regular polygon has 4 lines of symmetry. How many sides does it have?



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& answers

9) What decimal has 3 tenths and 7 hundredths?

A. 0.73

C. 3.7

B. 0.37

D. 0.307

10) A park has 50 trees. Another park has 2 times as many trees. How many trees does the other park have?

A. 52

C. 150

B. 75

D. 100

11) Compare the angles shown. Which statement is true?

Angle A



Angle B



A. Angle A is larger than Angle B

D. Cannot be determined from the diagram

B. Angle B is larger than Angle A

C. Both angles are equal

12) If you have 8 copies of $\frac{1}{12}$, what fraction do you have?

A. $\frac{8}{12}$

C. $\frac{12}{8}$

B. $\frac{1}{96}$

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

13) Which shape can be described as having four equal sides, two pairs of parallel sides, and four right angles?

A. Trapezoid

C. Square

B. Rhombus

D. Rectangle



1) A runner completes one lap in 3 minutes. How many minutes will it take to complete 9 laps at the same pace?

A. 12 minutes

C. 27 minutes

B. 18 minutes

D. 30 minutes

2) A store has 100 apples. They receive 35 more apples. Then they sell 42 apples. How many apples are left?

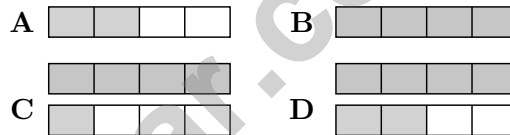
A. 65

C. 135

B. 77

D. 93

3) Which model shows 6 unit fractions of $\frac{1}{4}$ that equal $\frac{6}{4}$?



A. Picture A

C. Picture C

B. Picture B

D. Picture D

4) A track is divided into 10 equal sections. A runner has completed $\frac{7}{10}$ of the track. What decimal shows this progress?

A. 0.07

C. 7.0

B. 0.7

D. 0.017



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5) A pattern rule is “multiply by 3 then subtract 2.” If the input is 5, what is the output?

A. 10

C. 15

B. 17

D. 13

6) A school fundraiser collected \$17,890. Rounded to the nearest thousand dollars, about how much was collected?

7) Which word form matches this place-value chart?

Ten-Thousands	Thousands	Hundreds	Tens	Ones
5	3	7	9	0

A. Fifty-three thousand, seventy-nine

C. Five hundred thirty-seven

B. Fifty-three thousand, seven hundred nine

thousand, ninety

D. Fifty-three thousand, seven hundred ninety



1) Maria has 3 stickers. Sam has 2 times as many stickers as Maria. How many stickers does Sam have?

A. 3

C. 4

B. 5

D. 6

2) Maya has 7 pounds of flour. How many ounces of flour does she have?

3) On a line plot with fourths, the data are: $\frac{1}{4}$ in, $\frac{2}{4}$ in, $\frac{2}{4}$ in, $\frac{2}{4}$ in, $\frac{3}{4}$ in, $\frac{3}{4}$ in. What measurement has the most X marks?

4) What is the remainder when 2,047 is divided by 7?

$$\begin{array}{r}
 \text{quotient} \\
 292 \\
 7 \overline{) 2047} \\
 \underline{-14} \\
 64 \\
 \underline{-63} \\
 17 \\
 \underline{-14} \\
 3 \text{ remainder}
 \end{array}$$

A. 2

C. 4

B. 5

D. 3



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& answers

- 5) A baker uses $\frac{5}{8}$ cup of flour for one batch. How much flour does he use for 3 batches?
- A. $\frac{5}{24}$ cups C. $\frac{15}{8}$ cups or $1\frac{7}{8}$ cups
 B. $\frac{8}{5}$ cups D. $\frac{3}{8}$ cups
- 6) A rectangle has an area of 63 square feet. The length is 9 feet. What is the width?
- A. 6 ft C. 9 ft
 B. 8 ft D. 7 ft
- 7) What is 87,543 rounded to the nearest hundred?
- A. 88,000 C. 87,600
 B. 87,540 D. 87,500
- 8) A quadrilateral has two pairs of opposite sides that are equal and parallel. Is this figure a rectangle?
- A. Yes, always C. Only if it has right angles
 B. No, never D. Only if all four sides are equal
- 9) What is the next number in the pattern? 1, 1, 2, 3, 5, 8, 13, __
- A. 18 C. 21
 B. 20 D. 22
- 10) Which fraction is closest to 1 whole?
- A. $\frac{4}{6}$ C. $\frac{6}{10}$
 B. $\frac{5}{8}$ D. $\frac{3}{4}$



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 D is correct.** (M.4.3) Two steps! Step 1: cars left after selling: $200 - 50 = 150$. Step 2: pack into boxes of 6: $150 \div 6 = 25$ complete boxes (no remainder).
- Choice B is correct.** (M.4.15) On the number line, we make 2 jumps of $\frac{3}{4}$ each, landing at $\frac{6}{4} = 1\frac{1}{2}$. So $2 \times \frac{3}{4} = 1\frac{1}{2}$. The answer is $1\frac{1}{2}$.
- Choice A is correct.** (M.4.9) Add: $5,234 + 3,456 = 8,690$. In the hundreds place: $2 + 4 = 6$. The hundreds digit is **6**.
- Choice A is correct.** (M.4.14) Top bar is full (one whole). Bottom bar shows $\frac{3}{5}$ shaded. Together: $1 + \frac{3}{5} = 1\frac{3}{5}$ ✓.
- Choice D is correct.** (M.4.4) Start at 5 and apply “add 7” twice: $5 \rightarrow 12 \rightarrow 19$. The 3rd term is **19**.
- The correct answer is $1\frac{1}{5}$.** (M.4.14) The baker used some almonds from her supply. Subtract the amount used: $3\frac{2}{5} - 2\frac{1}{5} = 1\frac{1}{5}$ pounds of almonds remain.
- Choice D is correct.** (M.4.6) Mason’s thousands cards are worth $8 \times 1,000 = 8,000$; tens cards are worth $8 \times 10 = 80$. The ratio is $8,000 \div 80 = 100$ times. ✓
- The correct answer is 4.** (M.4.28) For any regular polygon, the number of lines of symmetry always equals the number of sides. So if it has 4 symmetry lines, it must have **4** sides (a square).
- Choice B is correct.** (M.4.16) 3 tenths = 0.3 and 7 hundredths = 0.07. Add them: $0.3 + 0.07 = 0.37$.
- Choice D is correct.** (M.4.2) “2 times as many” means multiply by 2: $2 \times 50 = 100$ trees.
- Choice B is correct.** (M.4.26) Angle A is small (around 67°), but Angle B opens much wider — almost like a right angle. Angle B definitely wins the size competition!
- Choice A is correct.** (M.4.15) If we have 8 copies of $\frac{1}{12}$, we multiply: $8 \times \frac{1}{12} = \frac{8}{12}$. So the answer is **8** out of 12 parts.
- Choice C is correct.** (M.4.27) A square has all four of these properties combined: four equal sides, two pairs of parallel sides, and four right angles. No other quadrilateral has all these properties. The answer is **C**.
- Choice B is correct.** (M.4.19) Convert 3 liters to mL: $3 \times 1,000 = 3,000$ mL. Since $2,500 \text{ mL} < 3,000 \text{ mL}$, the answer is **2,500** milliliters is smaller.
- The correct answer is $2\frac{6}{8}$.** (M.4.14) Since $\frac{5}{8} < \frac{7}{8}$, regroup: $6\frac{5}{8} = 5\frac{13}{8}$. Then subtract: $5\frac{13}{8} - 3\frac{7}{8} = 2\frac{6}{8}$.
- Choice D is correct.** (M.4.4) Test the small primes: 23 is odd; digit sum $2 + 3 = 5$ (not $\div 3$); doesn’t end in 0 or 5; $7 \times 3 = 21$, $7 \times 4 = 28$, no 7. So 23 has only factors 1 and itself—**prime**.
- The correct answer is A, B.** (M.4.10) Check each option. A: $(20 \times 17) + (6 \times 17) = 340 + 102 = 442$ checkmark. B: $(26 \times 10) + (26 \times 7) = 260 + 182 = 442$ checkmark. C, D, E don’t equal 442.
- Choice C is correct.** (M.4.16) Convert $\frac{1}{10}$ to hundredths: $\frac{1}{10} = \frac{10}{100}$. Now add the two fractions with the same denominator: $\frac{10}{100} + \frac{45}{100} = \frac{55}{100}$.
- Choice C is correct.** (M.4.21) Paper area = $11 \times 9 = 99$ sq in.
- Choice D is correct.** (M.4.1) “4 times as much” means multiply. The game costs $\$8 \times 4 = \32 .
- Choice B is correct.** (M.4.22) Count X marks for measurements greater than $\frac{2}{4}$ inch. At $\frac{4}{4}$ inch: 1 mark. At $\frac{6}{4}$ inch: 2 marks. Total: $1 + 2 = 3$ marks.
- Choice D is correct.** (M.4.12) Circle 1 shows $\frac{1}{4}$. Circle 2 has 8 parts. Multiply numerator and denominator by 2: $\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}$. Shade 2 parts.
- Choice A is correct.** (M.4.11) Long division: $1 \div 4 = 0 \text{ r}1$, bring down the 7 to get $17 \div 4 = 4 \text{ r}1$, bring down the 6 to get $16 \div 4 = 4$, bring down the 4 to get $4 \div 4 = 1$. The quotient is **441**.
- Choice A is correct.** (M.4.15) Four fifths: $4 \times \frac{1}{5} = \frac{4}{5}$.
- Choice A is correct.** (M.4.23) An acute angle is smaller than a right angle. This angle opens less than a square corner, so it is acute.
- Choice B is correct.** (M.4.14) The bar shows three shaded sections: $\frac{1}{6}$, $\frac{4}{6}$, and $\frac{1}{6}$. Add all three numerators: $1 + 4 + 1 = 6$ sixths = **1** whole.
- Choice B is correct.** (M.4.14) Ming ate 3 slices out of 12 equal slices, so the fraction is $\frac{3}{12}$. Breaking this into unit fractions: $\frac{3}{12} = \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$ —three slices, each representing $\frac{1}{12}$ of the pizza.



Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 7 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

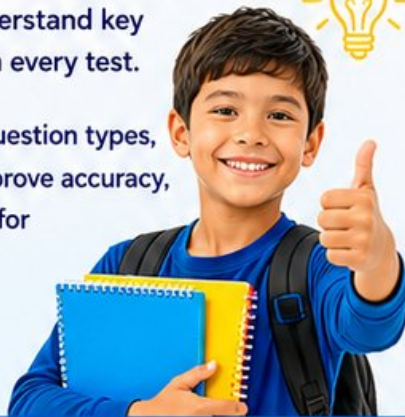
Jay Daie

Your Math Friend

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

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Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ And More!



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Mixed Question Types



Answer Key Included