

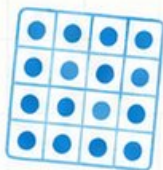
$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$

10

$$7 \times 8 = 56$$



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



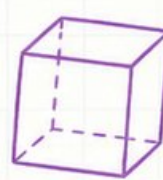
West Virginia



WVGSA



GRADE 4



MATH

PRACTICE TESTS



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



10 West Virginia WVGSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Mountain State math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole West Virginia book.
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.

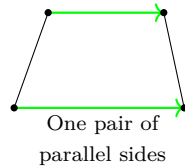


Scan me!
For more practice
& answers

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- 1) Look at the figure. It has one pair of parallel sides marked with matching arrows. Which shape is it?



- A. Parallelogram C. Trapezoid
 B. Rectangle D. Rhombus
- 2) Multiply the numerator and denominator of $\frac{3}{5}$ by 2. What fraction do you get?
- A. $\frac{6}{10}$ C. $\frac{3}{7}$
 B. $\frac{5}{7}$ D. $\frac{6}{7}$
- 3) Which statement is true?
- A. $9 \times \frac{1}{9} = 0$ C. $9 \times \frac{1}{9} = \frac{9}{1}$
 B. $9 \times \frac{1}{9} = 1$ D. $9 \times \frac{1}{9} = 9$
- 4) Which number sentence is true?
- A. $\frac{2}{10} = \frac{20}{100}$ C. $\frac{2}{10} = \frac{12}{100}$
 B. $\frac{2}{10} = \frac{2}{100}$ D. $\frac{2}{10} = \frac{100}{2}$
- 5) Which fraction bar shows $\frac{4}{6} + \frac{2}{6}$?

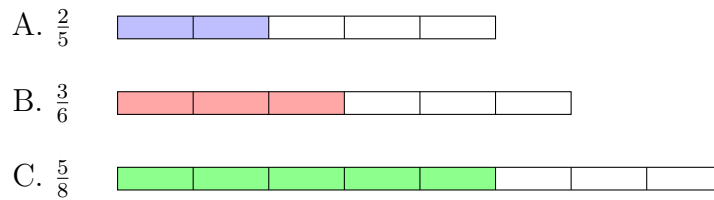


$\frac{4}{6}$ (green) + $\frac{2}{6}$ (orange)

- A. $\frac{4}{12}$ C. $\frac{6}{12}$
 B. $\frac{6}{6}$ D. $\frac{6}{8}$



9) Which fraction bar represents a fraction greater than $\frac{1}{2}$?



- A. $\frac{2}{5}$
 B. $\frac{3}{6}$

- C. $\frac{5}{8}$
 D. None are greater

10) A book bag weighs 5 kilograms. How many grams is this?

- A. 500
 B. 5,000

- C. 50,000
 D. 500,000

11) If the pattern “subtract 6” starts at 80, what is the 4th term?

- A. 56
 B. 74

- C. 68
 D. 62

12) There are 2 balloons. There are 7 times as many stickers. How many stickers are there?

- A. 7
 B. 2

- C. 9
 D. 14

13) Kai started with $5\frac{4}{6}$ meters of rope. He cut off a piece, leaving $2\frac{2}{6}$ meters. How much rope did he cut off?

- A. $2\frac{2}{6}$ meters
 B. $3\frac{1}{6}$ meters

- C. $3\frac{2}{6}$ meters
 D. $4\frac{1}{6}$ meters



5) A rectangle has an area of 88 square meters. The width is 8 meters. What is the length?

A. 10 m

C. 11 m

B. 12 m

D. 13 m

6) How many tenths equal $\frac{20}{100}$?

A. 2 tenths

C. 200 tenths

B. 20 tenths

D. 0.2 tenths

7) Keisha ran $\frac{5}{6}$ lap, Liam ran $\frac{3}{4}$ lap, and Mila ran $\frac{4}{5}$ lap. Who ran the shortest distance?

8) A juice bottle contains 2 liters of juice. How many milliliters is this?

A. 20

C. 2,000

B. 200

D. 20,000

9) What is $2,184 \div 7$?

A. 312

C. 319

B. 302

D. 322

10) Jackson hikes 4 miles. His dad hikes 9 times as many miles. How many miles does his dad hike?

A. 4

C. 9

B. 5

D. 36



1) Which correctly shows $\frac{7}{8}$ as a sum of unit fractions?

A. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

C. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

B. $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$

D. $\frac{1}{8}$ seven times plus $\frac{1}{1}$

2) A rectangle that is **not** a square has how many lines of symmetry?

A. 1

C. 3

B. 2

D. 4

3) What is $4 \times \frac{1}{3}$?

A. $\frac{4}{3}$ or $1\frac{1}{3}$

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

B. $\frac{1}{12}$

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

4) A number line shows hops of $\frac{2}{5}$. How many hops to reach $\frac{10}{5}$?



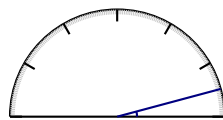
A. 2 hops

C. 4 hops

B. 3 hops

D. 5 hops

5)



What is the measure of this very small acute angle?

A. 10 degrees

C. 20 degrees

B. 15 degrees

D. 25 degrees



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.4.27) A trapezoid has exactly one pair of parallel sides. The green arrows in the figure mark this single pair of parallel sides, confirming the figure is a trapezoid. The answer is **C**.
- Choice A is correct.** (M.4.12) Multiply the numerator and denominator by 2: $\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10}$.
- Choice B is correct.** (M.4.15) When we have 9 copies of $\frac{1}{9}$, we have all 9 of the equal parts, which make one complete whole. So $9 \times \frac{1}{9} = 1$.
- Choice A is correct.** (M.4.16) When we convert $\frac{2}{10}$ to hundredths, we multiply both numerator and denominator by 10: $\frac{2 \times 10}{10 \times 10} = \frac{20}{100}$.
- Choice B is correct.** (M.4.14) The fraction bar is divided into 6 equal parts. The coral shows $\frac{4}{6}$ and the orange shows $\frac{2}{6}$. Add them: $4 + 2 = 6$ parts, or **1** whole.
- Choice D is correct.** (M.4.2) “4 times as many” is a multiplication signal: $4 \times 12 = 48$. *Tip:* $4 \times 10 = 40$ and $4 \times 2 = 8$, so $40 + 8 = 48$ sports books.
- Choice B is correct.** (M.4.14) A hiking trail is shown with sections covered. Step 1: Add the distances the hikers covered: $\frac{4}{12} + \frac{4}{12} = \frac{8}{12}$. Step 2: Find what’s left: $\frac{12}{12} - \frac{8}{12} = \frac{4}{12}$.
- Choice B is correct.** (M.4.28) The letter *T* has a horizontal bar across the top and a vertical stem down the middle. The vertical dashed line splits it perfectly so the left and right halves match. The answer is Yes, this is a line of symmetry.
- Choice C is correct.** (M.4.12) Look at the bars: $\frac{2}{5}$ is less than half (barely), $\frac{3}{6}$ is exactly half. Only $\frac{5}{8}$ clearly passes the halfway mark.
- Choice B is correct.** (M.4.19) Since 1 kilogram = 1,000 grams, multiply: $5 \times 1,000 = 5,000$ g. The answer is **5,000** g.
- Choice D is correct.** (M.4.4) Subtract 6 each time: 80, 74, 68, **62**. The 4th term is **62**.
- Choice D is correct.** (M.4.1) “7 times as many” is a multiplication clue: $2 \times 7 = 14$ stickers.
- Choice C is correct.** (M.4.14) Subtract the wholes: $5 - 2 = 3$. Subtract the fractions: $\frac{4}{6} - \frac{2}{6} = \frac{2}{6}$. He cut off **$3\frac{2}{6}$** meters.
- The correct answer is A, C.** (M.4.25) B is wrong (straight angles can be divided). D is wrong (smaller angles combine to form a right angle). E is wrong ($120^\circ \div 3 = 40^\circ$, not 30°).
- Choice A is correct.** (M.4.14) We have 5 copies of the unit fraction $\frac{1}{8}$. When we add them, the denominator stays 8, and we count the unit fractions: 5 of them. So $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{5}{8}$.
- The correct answer is 234.** (M.4.11) Use long division: $16 \div 7 = 2$ r2, bring down the 3 to get $23 \div 7 = 3$ r2, bring down the 8 to get $28 \div 7 = 4$. Each student gets **234** pencils.
- Choice D is correct.** (M.4.16) Look at the number line: L is at 0.50 and M is at 0.75. Since 0.55 falls between these, it’s in the region between L and M.
- Choice C is correct.** (M.4.23) An angle can be named in reverse order, but the vertex must stay in the middle. Since *M* is the vertex, $\angle NMO$ and $\angle OMN$ name the same angle.
- Choice C is correct.** (M.4.26) Count each arrow — each one is a ray that starts at point *X* and shoots off in a different direction. Three arrows means three rays!
- Choice B is correct.** (M.4.23) Since the angle measures 120° , it is made of **120** one-degree angles.
- Choice D is correct.** (M.4.4) Try the small primes: $41 \div 2$? No (odd). $\div 3$? $4 + 1 = 5$, not a multiple of 3. $\div 5$? (ends in 1). $\div 7$? $7 \times 6 = 42$, too big. So 41’s only factors are 1 and 41—**prime**.
- Choice B is correct.** (M.4.21) Using $P = 2\ell + 2w = 42$ with $\ell = 12$: $2(12) + 2w = 42$. Simplify: $24 + 2w = 42$, so $2w = 18$, thus $w = 9$ in.
- Choice A is correct.** (M.4.14) Diego used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Total water used: $6 + 3 = 9$, so $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$ ✓.
- Choice B is correct.** (M.4.15) Henry jumps $\frac{1}{2}$ meter 9 times. Multiply: $9 \times \frac{1}{2} = \frac{9 \times 1}{2} = \frac{9}{2} = 4\frac{1}{2}$ meters. The answer is $4\frac{1}{2}$ meters.
- Choice B is correct.** (M.4.20) Ethan has \$35 and spends \$12 on a book. Subtract: $35 - 12 = 23$ dollars. He has **\$23** left.



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 10 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

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

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