

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

West Virginia WVGSA

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 West Virginia WVGSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine 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!

Nine steady rounds on the Mountain State math route

This book gives you nine 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?

Nine tests, 270 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.
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.

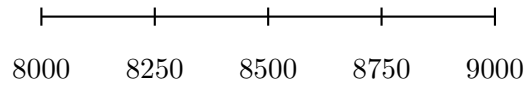


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1) Which number line best shows 8,250 and where it rounds?



- A. 8,250 rounds to 8,000 C. 8,250 rounds to 9,000
 B. 8,250 rounds to 8,500 D. 8,250 stays the same

2) There are 84 pencils in a box. 12 pencils are broken. The remaining good pencils are shared equally among 6 friends. How many pencils does each friend get?

- A. 14 C. 16
 B. 10 D. 12 pencils

3) A growing pyramid pattern is shown:



Figure 1 Figure 2 Figure 3

How many circles are in Figure 5?

- A. 10 C. 15
 B. 12 D. 18

4) Complete the equation: $7 \times \frac{1}{\underline{\quad}} = \frac{7}{9}$

- A. 7 C. 9
 B. 2 D. 16



5) Use this place-value table:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
5	2	1	4	0	6

What is the value of the ten-thousands digit?

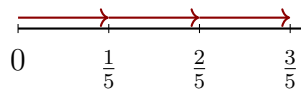
- A. 2 C. 200
 B. 20 D. 20,000

6) A hiking trail is 8 kilometers long. Convert this distance to meters.

7) What is the sum of the following unit fractions: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$?

- A. $\frac{4}{4}$ C. $\frac{1}{4}$
 B. $\frac{4}{16}$ D. $\frac{1}{16}$

8) Which number sentence matches the number line showing three equal hops from 0 to $\frac{3}{5}$?



- A. $3 \times \frac{1}{6} = \frac{3}{6}$ C. $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$
 B. $3 \times \frac{1}{5} = \frac{3}{5}$ D. $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$



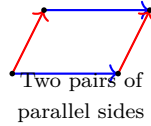
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9) Which fraction is equivalent to $\frac{2}{3}$?

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

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

10) Which shape always has two pairs of parallel sides?



- A. Trapezoid
- B. Triangle

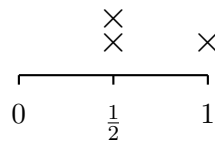
- C. Parallelogram
- D. Pentagon

11) Greyson collects 8 baseball cards. His friend collects 4 times as many. How many cards does his friend collect?

- A. 12
- B. 2

- C. 4
- D. 32

12) Look at the line plot of measurements in halves of an inch. How many X marks are above $\frac{1}{2}$ inch?



- A. 1
- B. 2

- C. 3
- D. 4



- 1) A triangle has all three sides of equal length. What can you say about its angles?
- A. All angles are equal and acute C. One angle is greater than 90 degrees
 B. One angle is 90 degrees D. The angles are different sizes
- 2) Ava buys 3 boxes of markers. Each box has 12 markers. She also buys 6 loose markers. How many markers does she have in total?
- A. 30 C. 18
 B. 36 D. 42
- 3) A full rotation is 360° . If part of the rotation is 215° , what angle remains to complete the full rotation?
- A. 145° C. 575°
 B. 215° D. 180°
- 4) Which decimal has the same value as $\frac{7}{10}$?
- A. 0.07 C. 7.0
 B. 0.70 D. 0.017
- 5) When naming an angle, what do we put in the middle?
- A. Any point on a side C. A point in the exterior
 B. The vertex D. A point in the arc



- 6) The minute hand moves from 12 to 4. How many degrees has it rotated?
- A. 90° C. 180°
 B. 120° D. 240°
- 7) What is 6×187 ?
- A. 1020 C. 1122
 B. 1200 D. 1320
- 8) Zara read $3\frac{2}{5}$ pages in the morning and $2\frac{3}{5}$ pages in the afternoon. What is the total number of pages she read?
- A. $5\frac{4}{5}$ pages C. 6 pages
 B. $5\frac{5}{5}$ pages D. $6\frac{1}{5}$ pages
- 9) Noah's plant height measurements (in halves of an inch) are: $\frac{1}{2}$, 1, $\frac{1}{2}$, $\frac{3}{2}$, 1, 1, $\frac{3}{2}$. On a line plot, how many X marks appear at 1 inch?
- A. 1 C. 3
 B. 2 D. 4
- 10) Mia arranged 24 stickers into arrays. Which array does NOT show a factor pair of 24?

A. 4×6



B. 5×5



C. 3×8



D. 2×12



A. 4×6

B. 5×5

C. 3×8

D. 2×12



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1) Add: $\frac{2}{10} + \frac{30}{100}$.

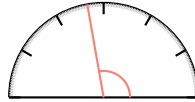
A. $\frac{32}{100}$

B. $\frac{50}{100}$

C. $\frac{32}{110}$

D. $\frac{2}{30}$

2)



Ming measures an angle and the measurement is just past 90 degrees. Which classification is correct?

 A. Obtuse angle B. Right angle C. Acute angle D. Straight angle

3) Which decimal is equivalent to $\frac{45}{100}$?

A. 0.45

B. 0.54

C. 4.5

D. 45.0

4) An angle measures 120° and is divided into three equal parts. What is the measure of each part?

A. 30°

B. 40°

C. 60°

D. 120°

5) Leo has \$50. He buys a shirt for \$12 and pants for \$28. How much money does he have left?

A. \$10

B. \$16

C. \$22

D. \$40



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6) Add: $6,234 + 3,456 = ?$

7) Which multiplication problem has the product 156?

A. 12×12

C. 14×12

B. 13×13

D. 13×12

8) How many factor pairs does 28 have?

9) A child ate $1\frac{3}{4}$ cookies and his sister ate $\frac{2}{4}$ cookies. How many cookies did they eat together?

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

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

B. $1\frac{1}{4}$

D. $\frac{5}{4}$

10) Diego spins a wheel. The wheel rotates 135° . What fraction of a full turn is this?

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

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

B. $\frac{3}{8}$

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



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 A is correct.** (M.4.8) We're rounding to the nearest thousand. Look at the hundreds digit in 8,250: it's $2 < 5$, so round DOWN to **8,000** ✓. The number line shows 8,250 is closer to 8,000 than to 9,000.
- Choice D is correct.** (M.4.3) Two steps! Step 1: take away the broken pencils: $84 - 12 = 72$ good pencils. Step 2: share equally among 6 friends: $72 \div 6 = 12$ pencils each.
- Choice C is correct.** (M.4.4) Build a pyramid: Figure 1 = 1, Figure 2 = $1 + 2 = 3$, Figure 3 = $1 + 2 + 3 = 6$. Figure 5 = $1 + 2 + 3 + 4 + 5 = 15$ circles.
- Choice C is correct.** (M.4.15) The fraction $\frac{7}{9}$ has numerator 7 and denominator 9. This means 7 copies of $\frac{1}{9}$. So the missing denominator is 9.
- Choice D is correct.** (M.4.7) The ten-thousands digit is 2. Value: $2 \times 10,000 = 20,000$ ✓
- The correct answer is 8,000.** (M.4.19) Since 1 kilometer = 1,000 meters, multiply: $8 \times 1,000 = 8,000$ m.
- Choice A is correct.** (M.4.14) Four copies of $\frac{1}{4}$ are $\frac{4}{4}$, which makes one whole. Count the numerators: $1 + 1 + 1 + 1 = 4$.
- Choice B is correct.** (M.4.15) The number line shows three equal jumps of $\frac{1}{5}$ each, landing at $\frac{3}{5}$. This matches $3 \times \frac{1}{5} = \frac{3}{5}$.
- Choice D is correct.** (M.4.12) To find an equivalent fraction, multiply both the numerator and denominator by the same number. Here, multiply by 2: $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$. Both pieces are twice as many, but they're the same size!
- Choice C is correct.** (M.4.27) A parallelogram is defined as a quadrilateral with two pairs of parallel sides. The blue and red arrows in the figure mark these two pairs of parallel sides. The answer is C.
- Choice D is correct.** (M.4.1) "4 times as many" is a multiplication signal. The friend collects 4 groups of Greyson's 8 cards: $8 \times 4 = 32$ cards.
- Choice B is correct.** (M.4.22) On the line plot, count the X marks stacked above $\frac{1}{2}$ inch. There are exactly **2** X marks.
- Choice C is correct.** (M.4.28) The letter H is balanced in two directions! A vertical line down the middle splits it into matching left and right halves, and a horizontal line across the middle splits it into matching top and bottom halves. So H has **2** lines of symmetry.
- Choice C is correct.** (M.4.15) We take 6 copies of $\frac{1}{8}$. Multiply: $6 \times \frac{1}{8} = \frac{6 \times 1}{8} = \frac{6}{8} = \frac{3}{4}$. The answer is $\frac{3}{4}$.
- The correct answer is A, D.** (M.4.14) A: $6 + 2 = 8$ eighths = 1 whole ✓. D: $5 + 1 = 6$ sixths = 1 whole ✓. B: $\frac{6}{5}$ (more than 1). C: $\frac{7}{8}$ (less than 1). E: $\frac{5}{4}$ (more than 1).
- Choice A is correct.** (M.4.26) Points J, K, and L all sit on the same straight horizontal line, making them collinear. Point M stands off to the side, so it's not part of this collinear group.
- Choice B is correct.** (M.4.23) The blue label marks the vertex—the point where the two sides (rays) meet.
- The correct answer is 2.** (M.4.4) Find every pair that multiplies to 35: 1×35 and 5×7 . (No other small numbers divide 35 evenly.) So there are **2** factor pairs.
- Choice A is correct.** (M.4.14) The book has two parts with fractional chapters. Add the mixed numbers: $4\frac{2}{6} + 2\frac{3}{6} = 6\frac{5}{6}$ chapters total.
- Choice A is correct.** (M.4.14) Add the wholes: $2 + 3 + 1 = 6$. Add the fractions: $\frac{1}{8} + \frac{4}{8} + \frac{2}{8} = \frac{7}{8}$. The total is **$6\frac{7}{8}$** chapters.
- Choice A is correct.** (M.4.16) The number line counts by tenths: 0.2 is the very first mark to the right of 0, so it's at position A.
- Choice D is correct.** (M.4.9) Round each number to the nearest thousand: $26,345 \approx 26,000$ and $8,912 \approx 9,000$. Subtract: $26,000 - 9,000 = 17,000$.
- Choice A is correct.** (M.4.25) The line splits the angle into two parts. Subtract to find the missing part: $158^\circ - 84^\circ = 74^\circ$.
- Choice A is correct.** (M.4.15) The bar shows that one ribbon is $\frac{3}{4}$ yard. With 2 ribbons like this, we get $2 \times \frac{3}{4} = \frac{6}{4} = 1\frac{1}{2}$ yards.
- Choice D is correct.** (M.4.6) From the chart, the hundreds digit is 2. Its value is $2 \times 100 = 200$. Statement B is true. ✓



From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 9 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.

Jay Daie

Your Math Family

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

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