

4

West Virginia



WV GSA



GRADE 4

MATH

PRACTICE TESTS


 5 FULL-LENGTH PRACTICE TESTS

 STANDARDS-ALIGNED REVIEW

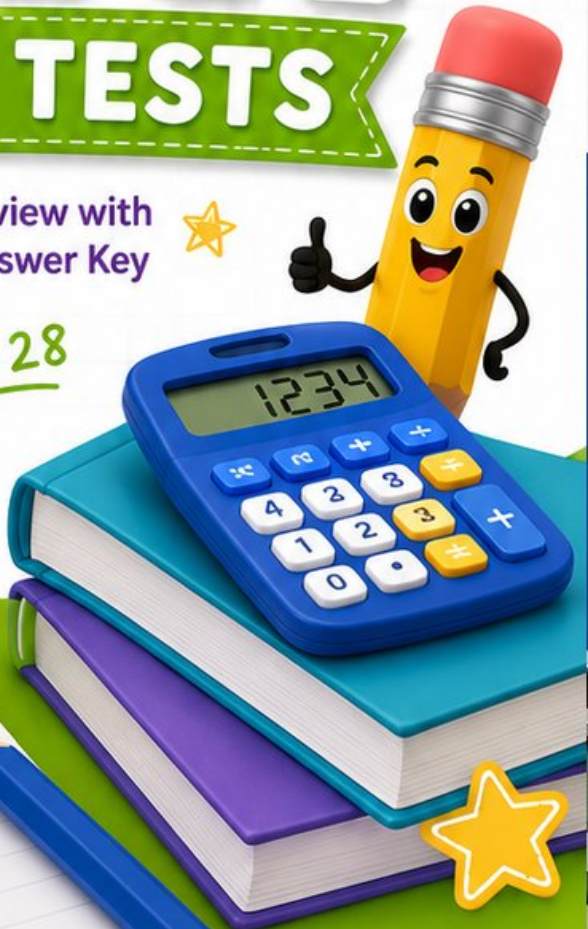
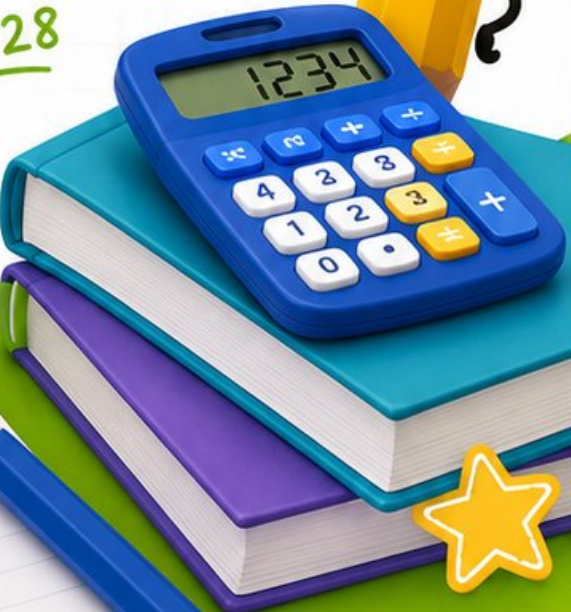
 MIXED PRACTICE QUESTIONS

 ANSWER KEY INCLUDED

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

 $4 \times 7 = 28$
 $36 \div 9 = 4$


$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



4 West Virginia WVGSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, West Virginia Math Explorer!

Four steady rounds on the Mountain State math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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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& answers

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1) What is $3\frac{4}{6} + 1\frac{2}{6}$?

A. $4\frac{5}{6}$

C. 5

B. $5\frac{1}{6}$

D. $4\frac{2}{6}$

2) Which expression matches the fraction $\frac{8}{10}$?

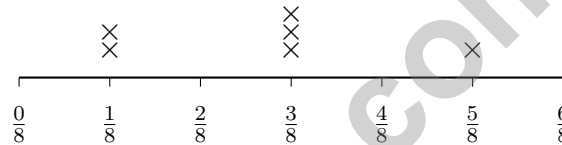
A. $2 \times \frac{1}{10}$

C. $10 \times \frac{1}{8}$

B. $8 \times \frac{1}{10}$

D. $8 \times \frac{1}{80}$

3) Here is a line plot with eighths:



How many X marks appear above the value $\frac{3}{8}$?

A. 1

C. 3

B. 2

D. 4

4) A gift was wrapped with ribbon. The first wrap used $2\frac{3}{8}$ meters and the second wrap used $1\frac{1}{8}$ meters. What is the total ribbon used?

A. $3\frac{4}{8}$

C. $4\frac{1}{8}$

B. $1\frac{2}{8}$

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



5) Add: $\frac{3}{10} + \frac{5}{100}$.

A. $\frac{8}{100}$




B. $\frac{8}{110}$

C. $\frac{35}{100}$

D. $\frac{80}{100}$

6) A triangle has angles 50° and 60° . What is the third angle?

7) A pattern shows figures made of small squares arranged in columns:




 Figure 1 Figure 2 Figure 3

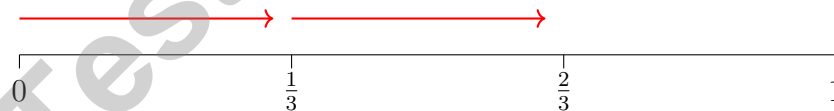
How many unit squares are in Figure 6?

A. 18

B. 28

C. 24

D. 21

8) A number line shows jumps of $\frac{1}{3}$. Which number of jumps gets us to $\frac{2}{3}$?

A. 1 jump

B. 2 jumps

C. 3 jumps

D. 6 jumps



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9) Clock hands point at 3 and at 9. What is the angle between them?

- A. 60° C. 120°
 B. 90° D. 180°

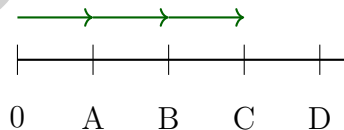
10) Ava reads 8 pages a day for 12 days. Noah reads 10 pages a day for 9 days. How many more pages does Ava read than Noah?

- A. 2 pages C. 26 pages
 B. 18 pages D. 6 pages

11) Which number correctly matches all three forms?

- A. Standard: 142,805; Word: "One hundred forty-two thousand, eight hundred five"; Expanded: $100,000 + 40,000 + 2,000 + 800 + 5$
 B. Standard: 142,805; Word: "Fourteen thousand, two hundred five"; Expanded: $100,000 + 40,000 + 2,000 + 800 + 5$
 C. Standard: 124,805; Word: "One hundred forty-two thousand, eight hundred five"; Expanded: $100,000 + 20,000 + 4,000 + 800 + 5$
 D. Standard: 142,850; Word: "One hundred forty-two thousand, eight hundred fifty"; Expanded: $100,000 + 40,000 + 2,000 + 800 + 5$

12) Sam has a number line with hops of $\frac{1}{4}$. Which point represents $3 \times \frac{1}{4}$?



- A. Point A C. Point C
 B. Point B D. Point D



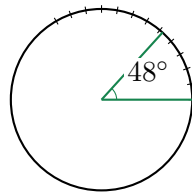
1) Maya measured her pencil and found it is 15 centimeters long. How many millimeters is this?

A. 1.5

C. 150

B. 15

D. 1,500



2)

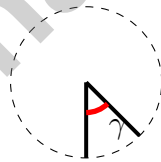
Diego drew an angle that turns through 48 one-degree angles. What is the measure of his angle?

A. 24°

C. 96°

B. 48°

D. 480°



3)

What is the measure of angle γ ?

A. 45°

C. 90°

B. 60°

D. 135°



4) What is the value of the thousands digit in 67,290?

A. 7

B. 70

C. 700

D. 7,000

5) Which sum is correct?

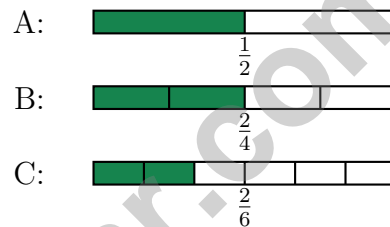
A. $\frac{7}{10} + \frac{10}{100} = \frac{80}{100}$

B. $\frac{7}{10} + \frac{10}{100} = \frac{17}{110}$

C. $\frac{7}{10} + \frac{10}{100} = \frac{7}{10}$

D. $\frac{7}{10} + \frac{10}{100} = \frac{7}{100}$

6) Three fraction bars are shown below. Two are equivalent. Which one is NOT equivalent to the others?



A. A

B. B

C. C

D. Cannot tell from the bars

7) A student uses a protractor to measure two adjacent angles at a vertex. One angle is 41° and the other is 139° . What is the combined measure of both angles?

A. 98°

B. 139°

C. 180°

D. 41°



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- 1) In the number 6,663, the value of the digit 6 in the hundreds place is how many times the value of the digit 6 in the tens place?
- A. 1 C. 100
 B. 1,000 D. 10
- 2) Three students timed their sprints. Riley: 0.47 seconds. Jordan: 0.74 seconds. Casey: 0.44 seconds. Who was fastest (smallest time)?
- A. Riley (0.47 s) C. Casey (0.44 s)
 B. Jordan (0.74 s) D. Riley and Jordan tied

Boxes and Balls5 boxes: 55 balls

Balls per box = ?

- 3)
- A store arranges 5 boxes of balls. If there are 55 balls total, how many balls are in each box?
- A. 9 C. 10
 B. 12 D. 11 balls
- 4) A school has 48 third-graders. This is 4 times as many as the number of second-graders. How many second-graders are there?
- A. 192 C. 44
 B. 52 D. 12

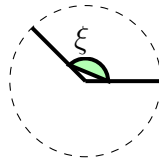


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5) What is $\frac{6}{10} + \frac{20}{100}$?

- A. $\frac{26}{100}$
 B. $\frac{80}{100}$

- C. $\frac{26}{110}$
 D. $\frac{62}{100}$



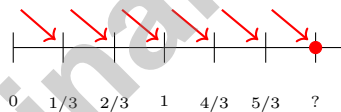
6)

The shaded angle ξ is measured from the rightward ray to the upper-left ray. What is its measure?

- A. 90°
 B. 120°

- C. 135°
 D. 180°

7) A number line shows jumps of $\frac{1}{3}$ starting at 0. If you make 6 jumps, where do you land?



- A. $\frac{1}{3}$
 B. 1

- C. 2
 D. 3

8) Three friends recorded their reading times (in halves of an hour). Zoe: $\frac{1}{2}$, 1, $\frac{1}{2}$. Kai: 1, $\frac{3}{2}$. Jordan: $\frac{3}{2}$, $\frac{3}{2}$, 1. Who has the highest total reading time?

- A. Zoe
 B. Kai

- C. Jordan
 D. Zoe and Jordan are equal



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

- 1) **Choice C is correct.** (M.4.14) Add the wholes: $3 + 1 = 4$. Add the fractions: $\frac{4}{6} + \frac{2}{6} = \frac{6}{6} = 1$. Since $\frac{6}{6}$ is a whole, combine: $4 + 1 = 5$.
- 2) **Choice B is correct.** (M.4.15) The numerator is 8 and the denominator is 10. This means we have 8 copies of $\frac{1}{10}$, which we write as $8 \times \frac{1}{10}$.
- 3) **Choice C is correct.** (M.4.22) Look at the line plot where $\frac{3}{8}$ is marked. Count the X marks stacked above it: there are **3** marks.
- 4) **Choice A is correct.** (M.4.14) A gift was wrapped with ribbon in two parts. Add the ribbon used: $2\frac{3}{8} + 1\frac{1}{8} = 3\frac{4}{8}$ meters total.
- 5) **Choice C is correct.** (M.4.16) First, convert $\frac{3}{10}$ to hundredths: $\frac{3}{10} = \frac{30}{100}$. Now both fractions have the same denominator, so we add: $\frac{30}{100} + \frac{5}{100} = \frac{35}{100}$.
- 6) **The correct answer is 70.** (M.4.27) The sum of angles in any triangle is 180 degrees. Subtracting the two given angles: $180 - 50 - 60 = 70$. The answer is **70**.
- 7) **Choice D is correct.** (M.4.4) Columns grow: Figure 1 = 1, Figure 2 = $1 + 2 = 3$, Figure 3 = $1 + 2 + 3 = 6$. Figure 6 = $1 + 2 + 3 + 4 + 5 + 6 = 21$ unit squares.
- 8) **Choice B is correct.** (M.4.14) Each jump moves us forward by $\frac{1}{3}$. To land on $\frac{2}{3}$, we need **2** jumps: $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$.
- 9) **Choice D is correct.** (M.4.23) On a clock, 3 and 9 are opposite each other, forming a straight line. The angle between them is **180°**.
- 10) **Choice D is correct.** (M.4.3) Three steps! Step 1: Ava's total: $8 \times 12 = 96$ pages. Step 2: Noah's total: $10 \times 9 = 90$ pages. Step 3: "how many more" is a subtraction: $96 - 90 = 6$ pages.
- 11) **Choice A is correct.** (M.4.7) Choice A matches all three forms: standard 142,805, word form "one hundred forty-two thousand, eight hundred five", and expansion $100,000 + 40,000 + 2,000 + 800 + 5$ ✓
- 12) **Choice C is correct.** (M.4.15) Starting at 0, each hop moves us forward by $\frac{1}{4}$. After three hops, we land at $3 \times \frac{1}{4} = \frac{3}{4}$, which is Point C.
- 13) **Choice B is correct.** (M.4.15) Eight children each get $\frac{1}{2}$ sandwich. We multiply: $8 \times \frac{1}{2} = \frac{8}{2} = 4$ sandwiches are needed.
- 14) **Choice A is correct.** (M.4.23) The angle extends from 0° to 40° , giving us **40°**.
- 15) **The correct answer is A, D.** (M.4.14) A: $5 + 3 = 8$ twelfths ✓. D: $6 + 2 = 8$ twelfths ✓. B: $11 - 2 = 9$ (wrong). C: $4 + 4 = 8$ sixths, not twelfths (wrong). E: $9 - 4 = 5$ (wrong).
- 16) **Choice A is correct.** (M.4.8) We're rounding to the nearest hundred, so check the tens digit of each. Option A (6,293): tens digit is $9 \geq 5$, rounds UP to **6,300**. ✓ Option B (6,234): tens digit is $3 < 5$, rounds DOWN to 6,200 (not 6,300). Option C (6,249): tens digit is $4 < 5$, rounds DOWN to 6,200 (not 6,250). Option D (6,251): tens digit is $5 \geq 5$, rounds UP to 6,300 (not 6,200).
- 17) **Choice A is correct.** (M.4.25) The angle is split into two parts. Subtract to find the missing one: $165^\circ - 92^\circ = 73^\circ$.
- 18) **Choice D is correct.** (M.4.1) To find "how many times," divide the larger group by the smaller: $8 \div 2 = 4$. So Group B has **4** times as many counters as Group A.
- 19) **Choice D is correct.** (M.4.12) To get a denominator of 12 from 3, multiply by 4. Multiply both top and bottom by 4: $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$.
- 20) **Choice C is correct.** (M.4.20) Each container holds 2 kilograms of rice. With 7 containers, multiply: $2 \times 7 = 14$ kg. The total is **14** kilograms.
- 21) **Choice A is correct.** (M.4.11) Divide: $9 \div 9 = 1$, bring down the 3 to get $3 \div 9 = 0$ r3, bring down the 6 to get $36 \div 9 = 4$. Ming makes **104** full bags.
- 22) **Choice A is correct.** (M.4.10) Use place value: $46 \times (10 + 2) = 460 + 92 = 552$ widgets.
- 23) **Choice B is correct.** (M.4.16) 0.6 is the decimal form of six tenths: $0.6 = \frac{6}{10}$.
- 24) **Choice C is correct.** (M.4.28) This right triangle has legs of different lengths, making it lopsided. No fold line can create two matching halves because one side is longer than the other. The answer is No, it has 0 lines.



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A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 4 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 4 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. 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, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect 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.



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



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STANDARDS-
ALIGNED REVIEW



MIXED PRACTICE
QUESTIONS