

6 West Virginia WVGSA

GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 West Virginia WVGSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six 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!

Six steady rounds on the Mountain State math route

This book gives you six 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?

Six tests, 180 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 4–6	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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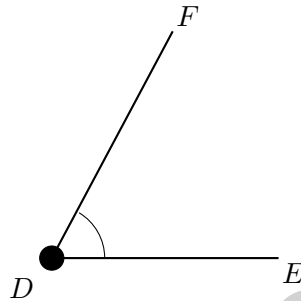
1) A baker has $\frac{11}{8}$ pounds of sugar. Which shows one way to decompose this?

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

C. $\frac{7}{8} + \frac{3}{8}$

B. $\frac{5}{8} + \frac{4}{8} + \frac{1}{8}$

D. $\frac{6}{8} + \frac{4}{8}$



2)

Which name correctly identifies the angle with vertex at D ?

A. $\angle DEF$

C. $\angle EFD$

B. $\angle FED$

D. $\angle EDF$

3) What does a point represent in geometry?

 A. An exact location with no size or shape

 C. The corner of a shape

 B. A small circle on a diagram

 D. The space between two lines

4) Use the place-value chart to find the decimal.

Tenths	Hundredths
9	2

A. 0.92

C. 0.029

B. 9.2

D. 92.0



5) Which fraction is less than 1?

- A. $\frac{4}{3}$
 B. $\frac{9}{8}$

- C. $\frac{7}{10}$
 D. $\frac{6}{5}$

6) The pattern is: 2, 4, 8, 16, 32, ... What is the 7th term?

- A. 64
 B. 512

- C. 256
 D. 128

7) Ava drinks $\frac{1}{4}$ cup of juice 4 times a day. How much juice does she drink altogether?

- A. $\frac{4}{4}$ cup or 1 cup
 B. $\frac{1}{16}$ cup

- C. $\frac{4}{1}$ cup
 D. $\frac{2}{4}$ cup

8) A bake sale sells 6 trays of cupcakes. Each tray has 24 cupcakes. They also have 18 leftover cupcakes from yesterday. How many cupcakes do they have in total?

- A. 144
 B. 140

- C. 156
 D. 162

9) A fish tank requires 3 liters of water per day to stay clean. How many liters are needed for 5 days?

- A. 8 L
 B. 15 L

- C. 2 L
 D. 3 L

10) Round 66,505 to the nearest thousand.

- A. 66,000
 B. 70,000

- C. 66,500
 D. 67,000



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11) Find $2\frac{3}{4} - 1\frac{1}{4}$.

12) Mia measures a piece of string as 8 decimeters long. How many centimeters is this?

 A. 0.8 C. 80 B. 8 D. 800

Alex



Claire

13)

Alex has 4 marbles. Claire has 2 times as many marbles as Alex. How many marbles does Claire have?

 A. 6 C. 10 B. 12 D. 8

14) Diego reads 16 pages of a book each day. If he reads for 5 days, how many pages does he read?

 A. 21 C. 70 B. 110 D. 80

1) What is $1,245 \div 5$?

A. 229

C. 289

B. 269

D. 249

2) A baker measured flour scoops in eighths of a cup. The measurements are: $\frac{2}{8}$, $\frac{3}{8}$, $\frac{2}{8}$, $\frac{4}{8}$, $\frac{3}{8}$, $\frac{3}{8}$. Which measurement appears most often?

A. $\frac{2}{8}$ cup

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

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

D. $\frac{5}{8}$ cup

3) How many square tiles fit in a grid that is 26 units long and 12 units wide?

A. 200

C. 262

B. 352

D. 312

4) Calculate $4 \times \frac{2}{3}$ as a mixed number.



water left removed
 $\frac{3}{5}$ filled, then $\frac{1}{5}$ removed

5)

A container divided into 5 equal parts is $\frac{3}{5}$ filled with water. If $\frac{1}{5}$ of the water is removed, what fraction of the container remains filled?

A. $\frac{1}{5}$

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

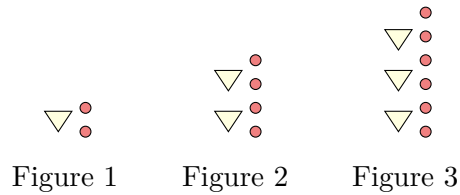
B. $\frac{2}{5}$

D. $\frac{3}{5}$



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6) A shape pattern uses triangles and dots arranged like this:

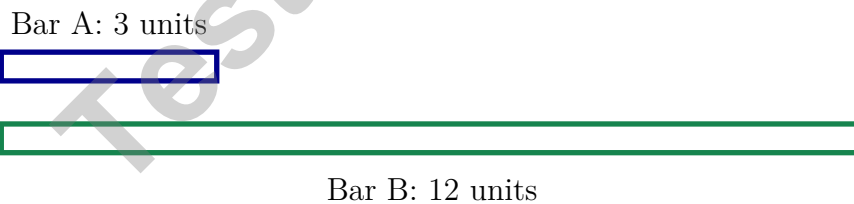


If the pattern continues, how many dots are in Figure 5?

- | | |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> A. 8 | <input type="checkbox"/> C. 12 |
| <input type="checkbox"/> B. 14 | <input type="checkbox"/> D. 10 |

7) A rectangular swimming pool is 25 feet long and 15 feet wide. How many feet of rope are needed to go around the entire edge of the pool?

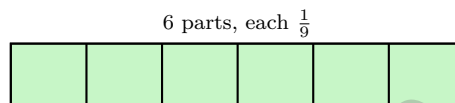
8) Look at the bar models. What is the relationship?



- | | |
|--|--|
| <input type="checkbox"/> A. Bar A is 2 times Bar B | <input type="checkbox"/> C. Bar A and Bar B are the same |
| <input type="checkbox"/> B. Bar B is 3 times Bar A | <input type="checkbox"/> D. Bar B is 4 times Bar A |

- 1) A rectangular classroom is 12 meters long and 8 meters wide. How much distance would you walk if you walked around the entire edge of the room once?
- A. 20 m C. 96 m
 B. 40 m D. 48 m

- 2) A fraction bar has 6 equal parts. If each part is $\frac{1}{9}$, what is the whole bar?

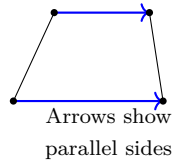


- A. $\frac{6}{9}$ C. $\frac{6}{54}$
 B. $\frac{1}{9}$ D. $\frac{9}{6}$
- 3) An array has 27 rows and 14 columns. How many items are in the array?
- A. 378 C. 324
 B. 348 D. 405
- 4) An obtuse angle has an opening that is:
- A. smaller than a right angle C. larger than a right angle but smaller than a straight angle
 B. the same as a right angle D. equal to a straight angle

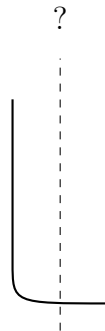


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& answers

- 5) Look at the figure with arrows showing parallel sides. How many pairs of parallel sides does it have?



- | | |
|--|---|
| <input type="checkbox"/> A. Zero pairs | <input type="checkbox"/> C. Two pairs |
| <input type="checkbox"/> B. One pair | <input type="checkbox"/> D. Three pairs |
- 6) What is $100,000 - 67,234$?
- | | |
|------------------------------------|------------------------------------|
| <input type="checkbox"/> A. 32,766 | <input type="checkbox"/> C. 32,666 |
| <input type="checkbox"/> B. 33,766 | <input type="checkbox"/> D. 33,666 |
- 7) All the factors of 24 are:
- | | |
|---|--|
| <input type="checkbox"/> A. 1, 2, 3, 4, 8, 12, 24 | <input type="checkbox"/> C. 2, 3, 4, 6, 8, 12, 24 |
| <input type="checkbox"/> B. 1, 2, 4, 6, 8, 12, 24 | <input type="checkbox"/> D. 1, 2, 3, 4, 6, 8, 12, 24 |
- 8) Look at the letter *U* below. Where is its line of symmetry?



- | | |
|--|--|
| <input type="checkbox"/> A. Horizontally across the middle | <input type="checkbox"/> C. Diagonally from corner to corner |
| <input type="checkbox"/> B. Vertically down the middle | <input type="checkbox"/> D. It has no line of symmetry |



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 A is correct.** (M.4.14) The baker has $\frac{11}{8}$ pounds. One whole is $\frac{8}{8}$, leaving $11 - 8 = 3$ more eighths. So: $\frac{8}{8} + \frac{3}{8} = \frac{11}{8}$ ✓.
- 2) **Choice D is correct.** (M.4.23) $\angle EDF$ correctly names the angle because the vertex, D , is the middle letter. The middle letter always tells us the vertex.
- 3) **Choice A is correct.** (M.4.26) A point is simply a precise spot in space — like marking a location on a map with a pin. It has no length, width, or height; we just draw it as a tiny dot to show where it is.
- 4) **Choice A is correct.** (M.4.16) The place-value chart displays 9 tenths and 2 hundredths. Combine them: $0.9 + 0.02 = 0.92$.
- 5) **Choice C is correct.** (M.4.12) A fraction is less than 1 when the numerator is less than the denominator. In $\frac{7}{10}$, $7 < 10$ ✓. The other three have numerators bigger than denominators.
- 6) **Choice D is correct.** (M.4.4) Double each term: 2, 4, 8, 16, 32, 64, **128**. The 7th term is **128**.
- 7) **Choice A is correct.** (M.4.15) Ava drinks $\frac{1}{4}$ cup 4 times, so we calculate $4 \times \frac{1}{4} = \frac{4 \times 1}{4} = \frac{4}{4} = 1$ cup. The answer is 1 cup.
- 8) **Choice D is correct.** (M.4.3) Two steps! Step 1: cupcakes from the trays: $6 \times 24 = 144$. Step 2: add the leftovers: $144 + 18 = 162$ cupcakes in total.
- 9) **Choice B is correct.** (M.4.20) The tank needs 3 liters per day for 5 days. Multiply: $3 \times 5 = 15$ liters. He needs **15** liters of water.
- 10) **Choice D is correct.** (M.4.8) We're rounding to the nearest thousand. Look at the hundreds digit: 5. Since $5 \geq 5$, we round UP! The thousands digit changes from 6 to 7, giving us **67,000**. ✓
- 11) **The correct answer is $1\frac{1}{2}$.** (M.4.14) Subtract the mixed numbers: $2\frac{3}{4} - 1\frac{1}{4} = 1\frac{2}{4}$, which simplifies to $1\frac{1}{2}$.
- 12) **Choice C is correct.** (M.4.19) Since 1 decimeter = 10 centimeters, multiply: $8 \times 10 = 80$ cm. The answer is **80** cm.
- 13) **Choice D is correct.** (M.4.2) Claire's group has 2 rows of 4 marbles—that's "2 times as many." Multiply: $2 \times 4 = 8$ marbles.
- 14) **Choice D is correct.** (M.4.10) Split 16: $5 \times (10 + 6) = 50 + 30 = \mathbf{80}$ pages.
- 15) **Choice A is correct.** (M.4.16) Compare tenths: $5 > 3$. Among the two with tenths = 5, compare hundredths: $5 > 3$, so $0.55 > 0.53$. Among the two with tenths = 3, compare hundredths: $5 > 3$, so $0.35 > 0.33$.
- 16) **The correct answer is A, C.** (M.4.22) A is correct: $\frac{2}{4}$ in has 3 X marks. C is correct: $\frac{3}{4}$ in has 3 X marks. Statement B is false: only 1 ribbon measured $\frac{1}{4}$ in. Statement D is false: the range is $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$, not $\frac{3}{4}$. Statement E is false: the total is 7 ribbons, not 8.
- 17) **Choice C is correct.** (M.4.15) Let's check: A: $1 \times \frac{1}{8} = \frac{1}{8}$ ✓. B: $4 \times \frac{1}{6} = \frac{4}{6}$ ✓. C: $5 \times \frac{1}{5} = \frac{5}{5} = 1$, not $\frac{5}{10}$ —incorrect! D: $2 \times \frac{1}{3} = \frac{2}{3}$ ✓.
- 18) **Choice A is correct.** (M.4.9) City B is smaller, so we subtract. $47,892 - 23,456 = \mathbf{24,436}$ people.
- 19) **The correct answer is 24.** (M.4.1) "3 times as many" = multiply by 3. The restaurant has $8 \times 3 = \mathbf{24}$ medium tables.
- 20) **The correct answer is 100.** (M.4.25) When two angles combine, add their measures: $47^\circ + 53^\circ = \mathbf{100^\circ}$.
- 21) **Choice A is correct.** (M.4.12) Ribbon 1: $\frac{1}{2}$ painted. Ribbon 2: $\frac{2}{4}$ painted—simplify to $\frac{2}{4} = \frac{1}{2}$. Same amount painted on both!
- 22) **Choice B is correct.** (M.4.14) We have 9 unit fractions of $\frac{1}{12}$. Counting them: 9 pieces, each $\frac{1}{12}$, so the sum is $\frac{9}{12}$.
- 23) **Choice C is correct.** (M.4.23) From 12 to 3 on a clock is a quarter turn, which is $\mathbf{90^\circ}$.
- 24) **Choice A is correct.** (M.4.14) The bar is divided into 10 equal parts. The light coral shows $\frac{9}{10}$ and the dark red shows $\frac{1}{10}$. Together: $9 + 1 = 10$ tenths = **1** whole.
- 25) **Choice A is correct.** (M.4.11) Long division: $1 \div 6 = 0$ r1, bring down the 4 to get $14 \div 6 = 2$ r2, bring down the 2 to get $22 \div 6 = 3$ r4, bring down the 8 to get $48 \div 6 = 8$. The answer is **238**.
- 26) **Choice B is correct.** (M.4.14) Since $\frac{2}{6} < \frac{5}{6}$, regroup: $3\frac{2}{6} = 2\frac{8}{6}$. Subtract: $2\frac{8}{6} - 1\frac{5}{6} = \mathbf{1\frac{3}{6}}$ pizzas.
- 27) **Choice D is correct.** (M.4.28) A square is perfectly balanced! Imagine folding it in half four different ways: vertically through the center, horizontally through the center, and diagonally both directions—each fold creates matching halves. The answer is **4** lines of symmetry.



Hi, Math Athlete!

◇ 6 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

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Develop logical thinking and effective solution strategies.



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Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



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



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