

3

West Virginia

WVGSA

GRADE 3

MATH

PRACTICE TESTS

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Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice

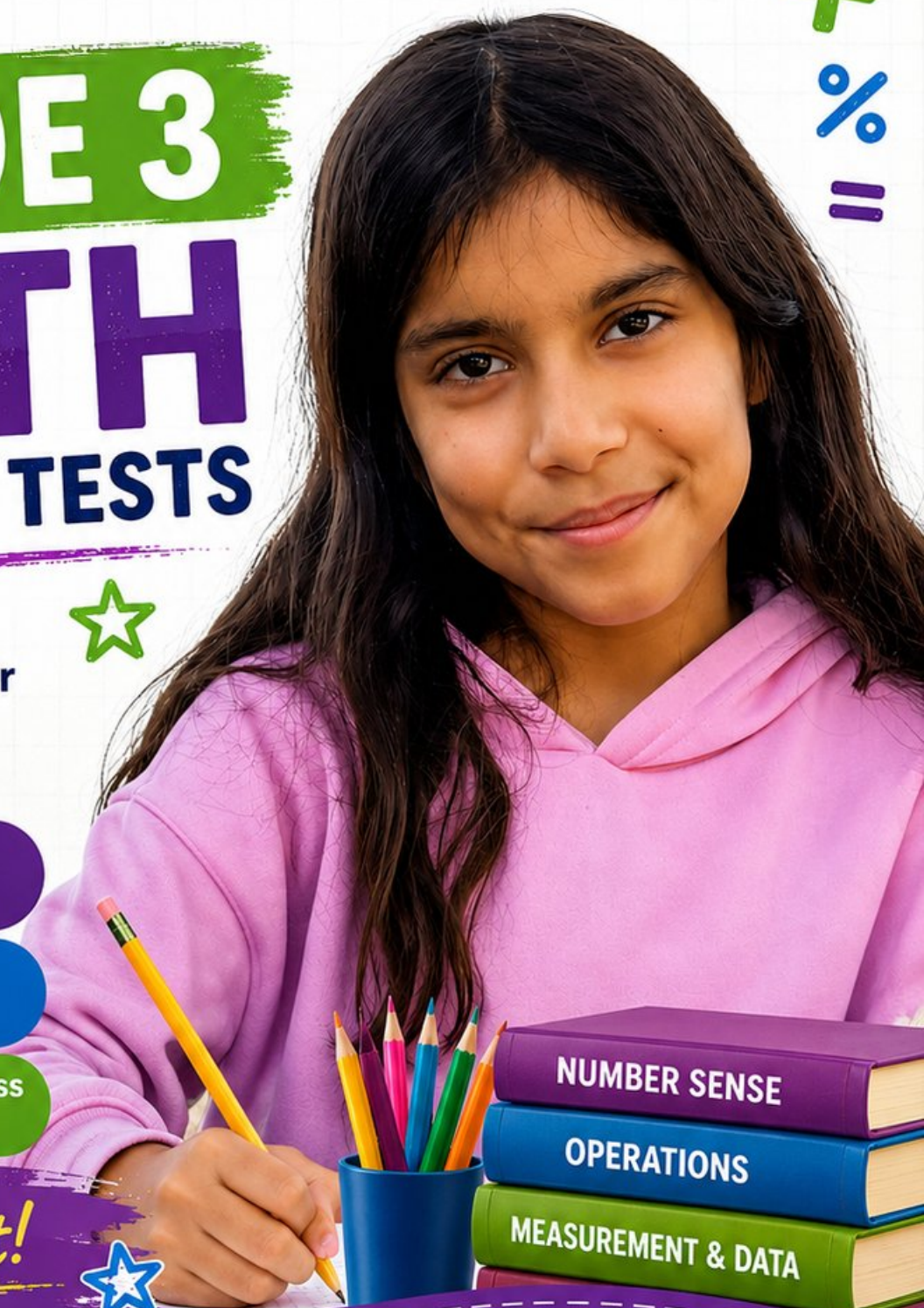


Strengthen Skills
in Key Math Concepts



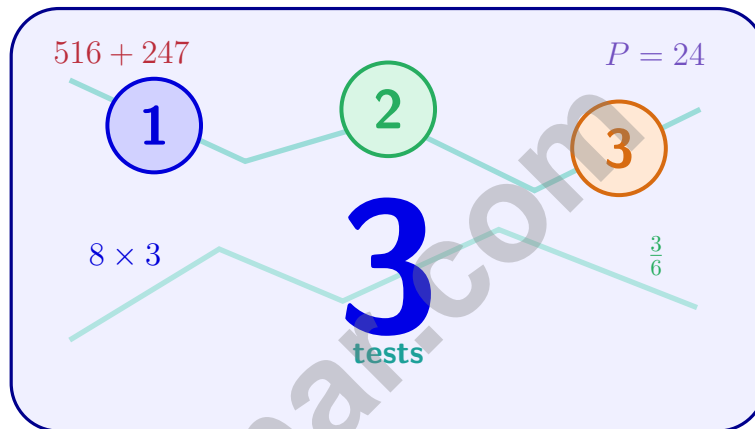
Improve Test Readiness
with Realistic Practice

Be Ready.
Do Your Best!



3 West Virginia WVGSA Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, West Virginia WVGSA strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the West Virginia Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the West Virginia WVGSA. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the West Virginia WVGSA asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong WVGSA work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



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10) A picture graph shows apples collected. Red apples: 6 icons (scale: 2 apples per icon). Green apples: 4 icons (scale: 2 apples per icon). How many more red apples than green apples?

- A. 2
 B. 4
 C. 6
 D. 12

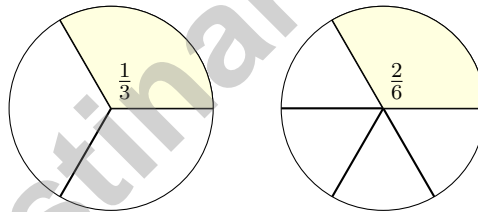
11) A bread loaf is cut into 8 equal slices. What fraction is one slice?

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

12) If you divide a line from 0 to 1 into 8 equal parts, what do you call one of those parts?

- A. One eighth
 B. Eight
 C. One half
 D. One whole

13) Which fraction is equivalent to $\frac{2}{6}$?



- A. $\frac{1}{3}$
 B. $\frac{1}{2}$
 C. $\frac{2}{3}$
 D. $\frac{2}{4}$

14) Noah buys 7 packs of pencils. Each pack has 10 pencils. How many pencils does Noah buy?

- A. 17
 B. 701
 C. 710
 D. 70



6) A rectangle has opposite sides that are equal. How many pairs of equal sides does a rectangle have?

A. 1 pair

B. 2 pairs

C. 3 pairs

D. 4 pairs

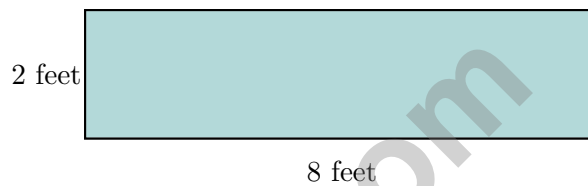
7) Which statement is true about the products of even and odd numbers?

A. Even \times odd is always odd

B. Even \times even is always odd

C. Even \times odd is always even

D. Odd \times odd is always even



8)

A rectangular bench top is 8 feet long and 2 feet wide. What is the area?

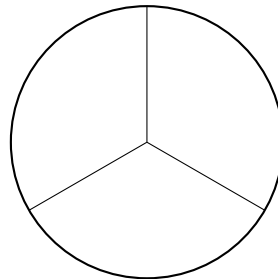
A. 10 sq ft

B. 16 sq ft

C. 20 sq ft

D. 40 sq ft

9) A circle is divided into equal parts. Each part is $\frac{1}{3}$ of the circle. How many equal parts is the circle divided into?



A. 2 parts

B. 3 parts

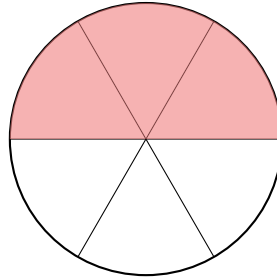
C. 4 parts

D. 6 parts



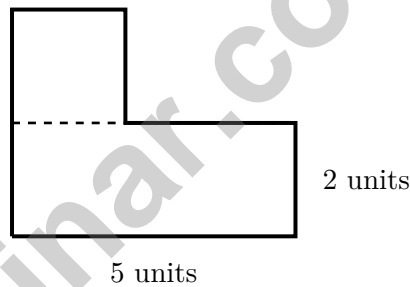
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- 1) A circle is divided into 6 equal parts. Three parts are shaded. Which fraction shows the shaded part?



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

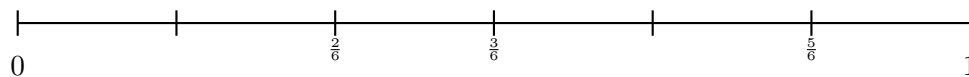
- 2) An L-shaped garden with dashed decomposition lines shows:



The bottom part is 5 units by 2 units. The top part is 2 units by 2 units. What is the total area?

- A. 4 sq units
 C. 10 sq units
 B. 14 sq units
 D. 20 sq units

- 3) Which fraction is EQUAL to $\frac{1}{2}$ on a number line with 6 equal parts?



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



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4) Two shelves each have cookies. Shelf 1 has 3 piles of 4 cookies. Shelf 2 has 4 piles of 3 cookies. How many cookies on each shelf?

- A. Shelf 1 has more
 B. Shelf 2 has more
 C. Both shelves have 7 cookies
 D. Both shelves have 12 cookies

5) Mia weighs three items on a scale:

Item	Mass
Apple	200 g
Orange	150 g
Banana	120 g

Which item has the greatest mass?

A. Apple
 B. Orange
 C. Banana
 D. All the same

6) A line plot shows music note durations in beats: 1, $1\frac{1}{2}$, 2, $2\frac{1}{2}$. There are 3 notes at 1 beat, 1 at $1\frac{1}{2}$ beats, 4 at 2 beats, and 1 at $2\frac{1}{2}$ beats. How many notes are at $2\frac{1}{2}$ beats?

- A. 1
 B. 2
 C. 3
 D. 4

7) Sam has a rectangular garden that is 12 units long and 2 units wide. What is the area of the garden?

- A. 14 sq units
 B. 24 sq units
 C. 36 sq units
 D. 48 sq units



Practice Test Answer Keys

How to use this section with a Grade 3 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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (M.3.12) The ones digit is 2. Since $2 < 5$, round down: 92 rounds to 90.
- 2) **Choice D is correct.** (M.3.2) $24 \div 6 = 4$. Divide the total students by the number of teams.
- 3) **Choice A is correct.** (M.3.23) Shape A is 1 unit wide and 5 units tall ($1 \times 5 = 5$). Shape B is 5 units wide and 1 unit tall ($5 \times 1 = 5$).
- 4) **Choice C is correct.** (M.3.21) The mode is the value with the most X's. Since 5 inches has 2 X's and 6 inches has 1, the mode at $5\frac{1}{2}$ inches must have more than 2. The minimum is 3 X's.
- 5) **Choice D is correct.** (M.3.3) Multiply: 3 groups \times 5 stars per group = 15 stars.
- 6) **Choice D is correct.** (M.3.9) $4 \times 10 = 40$. This is skip counting by 10 four times: 10, 20, 30, 40.
- 7) **The correct answer is $\frac{3}{4}$.** (M.3.27) Three shaded parts out of 4 equal parts is $\frac{3}{4}$.
- 8) **Choice D is correct.** (M.3.5) The commutative property of multiplication says we can switch the order of the factors and get the same product. So $3 \times 8 = 8 \times 3 = 24$.
- 9) **Choice B is correct.** (M.3.16) $\frac{12}{6} = 2$. Eli lands exactly at the whole number 2.
- 10) **Choice B is correct.** (M.3.20) Red: $6 \times 2 = 12$. Green: $4 \times 2 = 8$. Difference: $12 - 8 = 4$.
- 11) **Choice A is correct.** (M.3.15) A loaf cut into 8 equal slices has each slice as $\frac{1}{8}$ (one-eighth).
- 12) **Choice A is correct.** (M.3.15) One of eight equal parts is called one eighth.
- 13) **Choice A is correct.** (M.3.17) $\frac{2}{6}$ and $\frac{1}{3}$ equal the same amount.
- 14) **Choice D is correct.** (M.3.14) 7 packs of 10 pencils = $7 \times 10 = 70$ pencils.
- 15) **Choice A is correct.** (M.3.13) Ones: $4 + 6 = 10$ (write 0, carry 1). Tens: $5 + 8 + 1 = 14$ (write 4, carry 1). Hundreds: $3 + 1 + 1 = 5$. Answer: 540.
- 16) **Choice A is correct.** (M.3.8) Step 1: Subtract for necklace: $100 - 25 = 75$ beads. Step 2: Divide into bracelets: $75 \div 5 = 15$ beads per bracelet. (Choice D is step 1 only.)
- 17) **Choices C and D are correct.** (M.3.16) C and D are both correct because they show the same total area using the distributive property. The second rectangle has area 21 square units and width 3 units, so A and B are false. E is false because the total area is 63, not 105.
- 18) **Choice D is correct.** (M.3.17) $\frac{2}{4} = \frac{1}{2}$. Choices A, B, and C are all equivalent. Only $\frac{3}{4}$ is different.
- 19) **Choice B is correct.** (M.3.17) CRITICAL: Fraction comparisons are ONLY valid when both fractions describe the same-size whole. Since pizza B is bigger than pizza A, $\frac{1}{4}$ of the smaller pizza may actually be bigger than $\frac{1}{6}$ of the larger pizza. We cannot compare them. Standard 3.NF.A.3.d requires recognizing that comparisons are valid only when the two fractions refer to the same whole.
- 20) **Choice B is correct.** (M.3.22) Bottom: $7 \times 3 = 21$ sq ft. Top: $3 \times 2 = 6$ sq ft. Total: $21 + 6 = 27$ sq ft.
- 21) **Choice D is correct.** (M.3.6) Finding the missing factor: $6 \times 8 = 48$. This is the same as asking $48 \div 8 = \square$. We think: what times 8 makes 48? The answer is 6 because $6 \times 8 = 48$.
- 22) **The correct answer is 1050 g.** (M.3.19) Add: $300 + 400 + 350 = 1050$ g.
- 23) **Choice C is correct.** (M.3.16) (i) shows $\frac{1}{2}$ and (iii) shows $\frac{2}{4}$, which are equivalent fractions.
- 24) **Choice D is correct.** (M.3.7) $63 \div 9 = 7$ because $7 \times 9 = 63$. This is related to the multiplication fact.
- 25) **Choice A is correct.** (M.3.24) Area = $8 \times 3 = 24$ square feet.
- 26) **Choice C is correct.** (M.3.25) $P = 4 \times 3 = 12$ in.
- 27) **Choice A is correct.** (M.3.25) Area = width \times height = $11 \times 9 = 99$ square inches.
- 28) **Choice D is correct.** (M.3.1) The rectangle has 4 columns and 2 rows of equal parts. So $4 \times 2 = 8$ parts in total.
- 29) **The correct answer is 40 tiles.** (M.3.22) Count the rows: 5 rows of tiles. Count across: 8 tiles per row. Total: $8 + 8 + 8 + 8 + 8 = 40$ square foot tiles cover the floor.
- 30) **Choice C is correct.** (M.3.25) Wide rectangle: $8 \times 3 = 24$ square units.



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Hi, Strong Climber!

◇ You climbed all 3 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

Guide's tip: on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

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

Jay Daie

Your Math Trail Guide

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. *Succeed* Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

What's Inside?



Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



Real-World Applications

Engaging problems that connect math to everyday life.



Step-by-Step Progress

Track improvement and build confidence with every test.



Build Skills & Boost Confidence

Strengthen understanding and feel prepared for test day.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



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PRACTICE. PREPARE. SUCCEED.