

8

West Virginia WVGSA

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



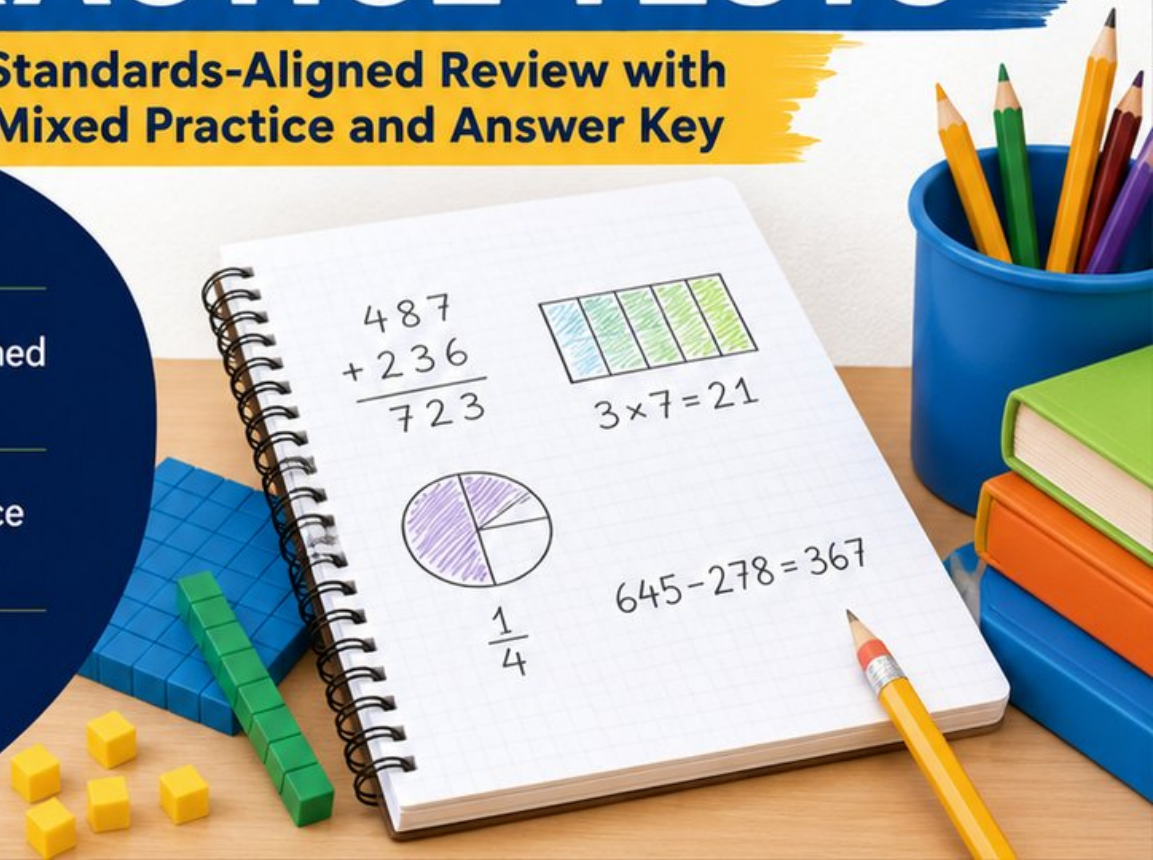
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 West Virginia WVGSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question practice rounds for Grade 3 math:
operations, fractions, measurement, data, area, shapes, answer keys,
and clear explanations for every item.

Jay Daie and Reza Nazari



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West Virginia, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the West Virginia WVGSA. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

West Virginia has mountain hollows, river rapids, forest roads, coal-town history, and patient practice, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and show each step so the answer can be trusted.

Your West Virginia Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this West Virginia book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In West Virginia, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the WVGSA

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

West Virginia focus: The practice path starts with mountain hollows, river rapids, forest roads, coal-town history, and patient practice. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



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1) Lily starts playing at 2 : 18 PM. She plays for 44 minutes. What time does Lily stop playing?

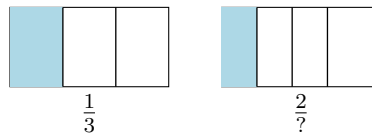
A. 3 : 00 PM

C. 3 : 12 PM

B. 3 : 02 PM

D. 2 : 58 PM

2) Look at the area models. $\frac{1}{3} = \frac{2}{?}$. What is the missing denominator?



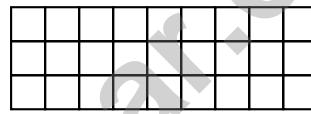
A. 4

C. 8

B. 6

D. 10

3) Eli's rectangular carpet is 9 units long and 3 units wide. Here is the grid:



Count all the unit squares. What is the area?

A. 12 sq units (just the edge)

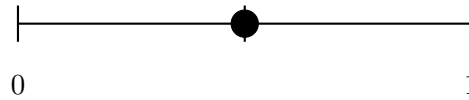
C. 27 sq units

B. 18 sq units

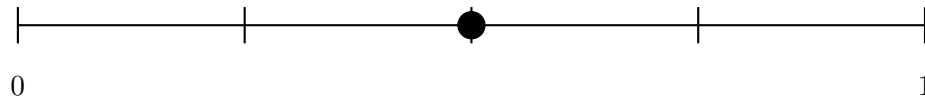
D. 36 sq units



- 4) Two number lines show the same interval from 0 to 1. One is divided into 2 parts, the other into 4 parts. Which statement is true?



Line A



Line B

- A. Line A shows $\frac{1}{4}$ and Line B shows $\frac{2}{4}$
 C. Line A shows $\frac{1}{2}$ and Line B shows $\frac{4}{4}$
- B. Both lines show the same point: halfway from 0 to 1
 D. Line B shows a fraction larger than Line A

- 5) If $7 \times 9 = 63$, what is 9×7 ?

- 6) Marcus says $4 \times 70 = 4700$. Is he correct? Why or why not?

- A. Yes, he is correct.
 C. No, the answer is 470.
- B. No, the answer is 280.
 D. No, the answer is 2800.



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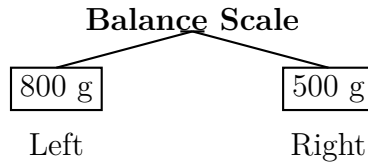
7) What whole number equals $\frac{10}{2}$?

A. 2

C. 10

B. 5

D. 3



8)

Which side of the balance scale is heavier?

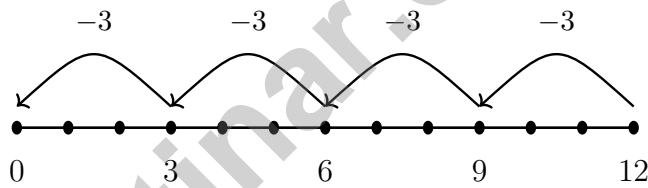
A. Left side

C. Both sides equal

B. Right side

D. Cannot tell

9) Which division sentence is shown on the number line?



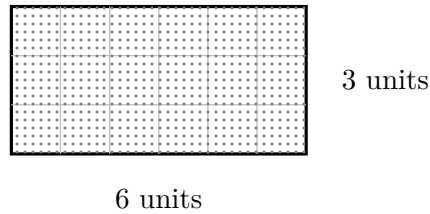
A. $12 \div 3 = 4$

C. $12 \div 6 = 2$

B. $12 \div 4 = 3$

D. $12 - 3 = 9$





1)

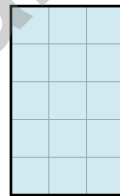
Use multiplication to find the area of the shaded rectangle.

- A. 9 sq units C. 18 sq units
 B. 24 sq units D. 36 sq units

2) Mia's rectangular bedroom needs new carpet tiles. The room is 10 units by 4 units. How many unit square tiles will cover the entire floor?

- A. 14 tiles C. 40 tiles
 B. 28 tiles D. 80 tiles

3) This rectangle is divided into unit squares on a grid.



What is the area?

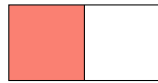
- A. 8 sq units C. 20 sq units
 B. 15 sq units D. 25 sq units



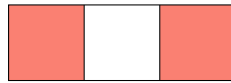
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4) What fraction is the third tick on a number line split into 4 equal parts?

5) Which pair of rectangles shows equivalent fractions?



A: $\frac{1}{2}$



B: $\frac{2}{3}$



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



D: $\frac{2}{4}$

A. A and B

C. B and C

B. C and D

D. A and D

6) Lily collects 9 marbles and her friend collects 6 marbles. They put the marbles together and split them into 3 equal groups. How many marbles are in each group?

A. 3

C. 9

B. 5

D. 15

7) What is 147 rounded to the nearest 10?

A. 140

C. 150

B. 147

D. 200



1) A picture graph shows coins saved. Each symbol is 5 coins. Ty saved 6 symbols, Kim saved 8 symbols. How many fewer coins does Ty have than Kim?

A. 2 coins

C. 15 coins

B. 10 coins

D. 30 coins

2) A recipe needs $\frac{18}{6}$ cups of flour. How many whole cups is this?

A. 6

C. 18

B. 3

D. 2

3) Look at this pattern: $3 \times 10 = 30$, $3 \times 20 = 60$, $3 \times 30 = 90$. Using the pattern, what is 3×70 ?

A. 37

C. 210

B. 73

D. 2100

4) Look at the fact family:

$3 \times 8 = 24$	$8 \times 3 = 24$
$24 \div 3 = 8$	$24 \div 8 = 3$

Which equation is part of this fact family?

A. $24 \div 8 = 4$

C. $20 \div 3 = 8$

B. $24 \div 4 = 8$

D. $24 \div 3 = 8$

5) Which expanded number sentence uses the distributive property?

A. $2 \times (6 + 4) = 2 \times 6 + 4 = 16$

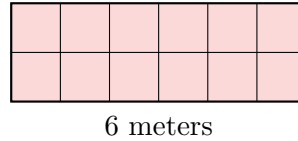
D. $2 \times (6 + 4) = 2 \times 6 + 2 \times 4 = 12 + 8 = 20$

B. Neither is correct

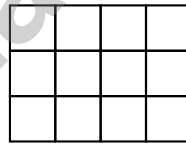
C. $2 \times (6 + 4) = 2 + 6 + 4 = 12$



- 6) Lily has a rectangular garden that is 6 meters long and 2 meters wide. If she uses 1-meter by 1-meter tiles (unit squares), how many tiles does she need?



- A. 8 tiles C. 12 tiles
 B. 10 tiles D. 14 tiles
- 7) A toy store organizes action figures into display cases. Each case has 3 rows with 5 figures in each row. The store has 2 display cases. How many figures are on display altogether?
- A. 30 C. 8
 B. 15 D. 10
- 8) Look at this rectangle covered exactly by unit squares:



Count the unit squares. What is the area?

- A. 7 sq units C. 14 sq units
 B. 12 sq units D. 24 sq units



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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 turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (M.3.18) $2 : 18 + 44 \text{ min} = 2 : 18 + 42 \text{ min} + 2 \text{ min} = 3 : 00 + 2 \text{ min} = 3 : 02 \text{ PM}$.
- 2) **Choice B is correct.** (M.3.17) The numerator was multiplied by 2 (from 1 to 2). Multiply the denominator by 2: $3 \times 2 = 6$. So $\frac{1}{3} = \frac{2}{6}$.
- 3) **Choice C is correct.** (M.3.22) Count the rows: 3 rows. Count across: 9 unit squares per row. Total: $9 + 9 + 9 = 27$ square units cover the carpet.
- 4) **Choice B is correct.** (M.3.16) The dot on Line A is at $\frac{1}{2}$. The dot on Line B is at $\frac{2}{4}$, which equals $\frac{1}{2}$. Both mark the same location.
- 5) **The correct answer is 63.** (M.3.5) The commutative property gives $9 \times 7 = 63$.
- 6) **Choice B is correct.** (M.3.14) $4 \times 70 = 4 \times 7 \times 10 = 28 \times 10 = 280$. Marcus added two zeros instead of one.
- 7) **Choice B is correct.** (M.3.27) $10 \text{ halves} \div 2 \text{ halves per whole} = 10 \div 2 = 5 \text{ wholes}$.
- 8) **Choice A is correct.** (M.3.19) 800 g is more than 500 g, so the left side is heavier.
- 9) **Choice A is correct.** (M.3.2) The number line shows repeated subtraction of 3 four times, so $12 \div 3 = 4$.
- 10) **Choice C is correct.** (M.3.21) The mode is the value with the most X's. At $16\frac{1}{2}$, there are 3 X's, which is more than any other value.
- 11) **Choice C is correct.** (M.3.22) Top: $8 \times 3 = 24$ sq units. Bottom: $5 \times 2 = 10$ sq units. Total: $24 + 10 = 34$ sq units.
- 12) **The correct answer is 9.** (M.3.4) Divide: $27 \div 3 = 9$. Check: $9 \times 3 = 27$.
- 13) **Choice C is correct.** (M.3.9) Add 7 to 49 to get 56. Multiples of 7 always increase by 7.
- 14) **Choice A is correct.** (M.3.12) The tens digit is 1. Since $1 < 5$, round down: 916 rounds to 900.
- 15) **Choice A is correct.** (M.3.20) Ben's bar is 2 units tall. $2 \times 10 = 20$ apples.
- 16) **Choice B is correct.** (M.3.27) Rectangle B has 2 lines that divide it into 3 equal parts. Rectangles A and C have unequal spacing.
- 17) **Choices C and D are correct.** (M.3.26) Rhombuses and squares both have all 4 sides equal in length. A square is a special rhombus with right angles. Rectangles can have unequal sides (length and width). Trapezoids and general parallelograms do not require equal sides.
- 18) **The correct answer is 6.** (M.3.7) $54 \div 9 = 6$ because $6 \times 9 = 54$.
- 19) **Choice B is correct.** (M.3.24) Adding the width 3 seven times: $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$. This is the same as $7 \times 3 = 21$ square units.
- 20) **Choice C is correct.** (M.3.23) $3 \times 4 = 12$ unit squares.
- 21) **Choice A is correct.** (M.3.17) X is halfway between 0 and $\frac{1}{3}$, which is $\frac{1}{6}$. Y is between $\frac{1}{3}$ and 1, at the $\frac{1}{2}$ mark.
- 22) **Choice A is correct.** (M.3.6) $21 \div 3 = \square$ asks: $\square \times 3 = 21$. Since $7 \times 3 = 21$, the answer is 7.
- 23) **Choice A is correct.** (M.3.16) Add the two smaller rectangle areas: $3 \times 3 = 9$ and $4 \times 3 = 12$, so total is 21 square units.
- 24) **Choice B is correct.** (M.3.15) When you add three unit fractions of $\frac{1}{4}$, you get $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$.
- 25) **Choice B is correct.** (M.3.22) The shaded region is 4 units wide and 3 units tall. $4 \times 3 = 12$ square units.
- 26) **Choice B is correct.** (M.3.23) A unit square by definition has side length 1 unit. In centimeters, that is 1 cm by 1 cm, giving area $1 \text{ cm} \times 1 \text{ cm} = 1$ square cm.
- 27) **Choice D is correct.** (M.3.1) The array shows 3 columns and 4 rows, so $3 \times 4 = 12$ or $4 \times 3 = 12$.
- 28) **Choice D is correct.** (M.3.3) Area of a square = side \times side = $5 \times 5 = 25 \text{ cm}^2$.
- 29) **Choice B is correct.** (M.3.17) On the number line, $\frac{2}{6}$ and $\frac{1}{3}$ mark the same point.
- 30) **Choice A is correct.** (M.3.13) Subtract: $300 - 145 = 155$. Ones: $0 - 5$ requires regrouping, so $10 - 5 = 5$. Tens: $9 - 4 = 5$ (after regrouping). Hundreds: $2 - 1 = 1$ (after regrouping).

Practice Test 2 Answers and Explanations



Hi, Curious Scientist!

◇ 8 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
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