

6

West Virginia

WVGSA

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 West Virginia WVGSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs 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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Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the West Virginia WVGSA. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

West Virginia brings mountain hollows, river rapids, forest roads, and coal-town history. Strong math uses that same care: read the task, select a strategy, build the solution, and show each step so the answer can be trusted.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For West Virginia students, each lab is a short route through mountain hollows, river rapids, forest roads, and coal-town history: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how West Virginia Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the West Virginia WVGSA path.



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& answers

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5) What whole number equals $\frac{12}{6}$?

A. 6

C. 12

B. 2

D. 3

6) A line plot displays plant heights in inches: 8, $8\frac{1}{2}$, 9, $9\frac{1}{2}$, 10. The data shows 4 measurements at 8 inches, 2 at $8\frac{1}{2}$ inches, 0 at 9 inches, 1 at $9\frac{1}{2}$ inches, and 3 at 10 inches. How many plants are at least 9 inches tall?

7) A tiled rectangle has two parts: $10 \times 3 = 30$ and $10 \times 7 = 70$. Which expanded distributive equation is correct?

A. $10 \times (3 + 7) = 10 + 10 = 20$

C. $10 \times 3 + 7 = 37$

B. $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$

D. $3 + 7 = 10$

8) A square has how many right angles?

9) Ben divides 35 trading cards equally among 5 friends. How many cards does each friend get?

A. 30

C. 6

B. 8

D. 7



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10) Which equation is in the same fact family as $6 \times 7 = 42$?

A. $42 \div 6 = 7$

C. $7 \times 6 = 41$

B. $42 \div 5 = 8$

D. $42 \div 7 = 7$

11) Lily multiplies: $7 \times 9 = 63$.

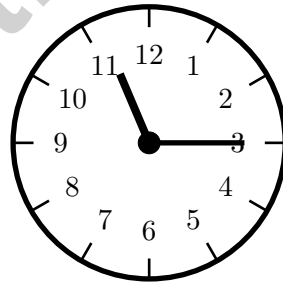
Both 7 and 9 are odd. Why is 63 also odd?

 A. Because 7 and 9 are both greater than 5 C. Because 63 is less than 100 B. Because we added instead of multiplied D. Because odd numbers times odd

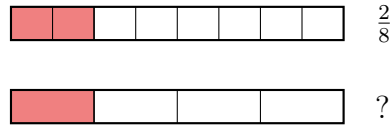
12) Sam marks two number lines. On line 1, he marks $\frac{2}{4}$. On line 2, he marks $\frac{3}{6}$. Are his marks at the same place?

 A. The lines are not the same length. C. No, $\frac{2}{4}$ is further right. B. No, $\frac{3}{6}$ is further right. D. Yes, same place.

13) A clock shows the hour hand between 11 and 12, and the minute hand points to 3. What time does it show?

 A. 3 : 12 C. 11 : 30 B. 11 : 15 D. 12 : 35

1) Which fraction is equivalent to $\frac{2}{8}$?



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

2) Ben's blanket is a square with sides of 7 meters. What is the area of the blanket?

- A. 14 sq m C. 42 sq m
 B. 28 sq m D. 49 sq m

3) Noah splits a number line from 0 to 1 into 2 equal parts. Then he splits each part in half again. How many equal parts are there now?

- A. 2 C. 4
 B. 3 D. 8

4) For a number like _____, the rounding rule says "look at the tens digit." What does the rounding rule mean by "look"?

- A. Stare at the number with your eyes C. Remember all the numbers you've rounded before
 B. Write the tens digit on a separate page D. Check whether it is 5 or greater to decide if we round up

5) Ben says $5 \times 40 = 54$ because he added $5 + 4$ instead of multiplying. Which answer is correct?

- A. 9 C. 54
 B. 45 D. 200

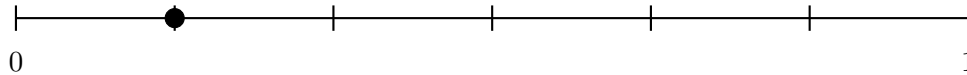


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6) Which pair of dimensions creates a rectangle with area 8 unit squares?

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

7) A number line from 0 to 1 has 6 equal parts. The dot shown is closest to which fraction?



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

8) A piece of paper is shaped like a rectangle 9 inches long and 1 inch wide. Another piece is a square 3 inches on each side. Which paper covers more area?

- A. The long, thin rectangle C. They cover the same area
 B. The square D. Need to measure with a ruler

9) How are squares and rectangles similar?

- A. Both have 4 sides and 4 right angles C. Both have no parallel sides
 B. Both have all equal sides D. Both have 5 vertices

10) Which fraction is equivalent to $\frac{3}{4}$?

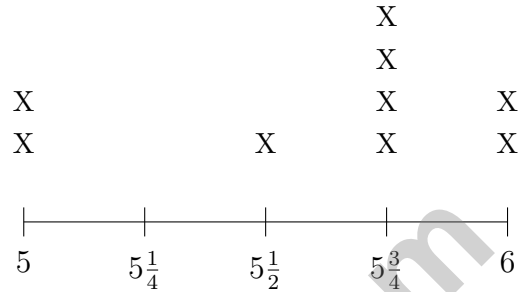
- A. $\frac{3}{8}$ C. $\frac{6}{8}$
 B. $\frac{4}{3}$ D. $\frac{1}{2}$



1) Which shape would require 4 unit squares and has equal side lengths?

- A. A 2×2 square C. A 1×4 rectangle
 B. A 4×1 rectangle D. A 3×2 rectangle

2) A line plot shows book lengths in inches with quarters: 5, $5\frac{1}{4}$, $5\frac{1}{2}$, $5\frac{3}{4}$, 6.



What is the least common book length?

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

3) A rectangle has length 8 cm and width 5 cm. What is its perimeter?

- A. 13 cm C. 40 cm
 B. 26 cm D. 80 cm

4) Each box holds 6 pencils. One box has 6 pencils. Two boxes have 12 pencils. Three boxes have 18 pencils.

How many pencils are in 5 boxes?

- A. 24 C. 36
 B. 42 D. 30



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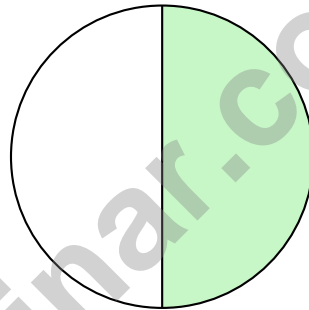
5) A composite shape breaks into three rectangles: one 5 units by 3 units, and two 2 units by 3 units each. What is the total area?

- A. 15 sq units C. 27 sq units
 B. 6 sq units D. 90 sq units

6) A library has 80 books in a bin. They remove 20 damaged books. The rest are placed on 4 shelves equally. How many books are on each shelf?

- A. 12 C. 18
 B. 20 D. 15

7) Here is a circle divided into 2 equal parts.



Each part of the circle is what fraction of the whole circle?

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

8) A bakery makes trays of cookies. The baker puts 5 cookies in each row and has 7 rows on one tray. How many cookies are on one tray?

- A. 35 C. 30
 B. 12 D. 2



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

- Choice C is correct.** (M.3.12) The ones digit is 5. Since $5 \geq 5$, round up: 555 rounds to 560.
- Choice B is correct.** (M.3.15) The denominator tells how many equal parts the whole is divided into. One-third ($\frac{1}{3}$) means 3 equal parts.
- Choice A is correct.** (M.3.27) One shaded column out of four equal columns is $\frac{1}{4}$.
- Choice A is correct.** (M.3.13) Subtract to find the missing addend: $506 - 189 = 317$. Check: $317 + 189 = 506$.
- Choice B is correct.** (M.3.27) 12 sixths divided into groups of 6 sixths (one whole) gives 2 wholes. $12 \div 6 = 2$.
- The correct answer is 4 plants.** (M.3.21) At least 9 inches means $9, 9\frac{1}{2}$, and 10 inches: $0 + 1 + 3 = 4$ plants.
- Choice B is correct.** (M.3.16) The expanded distributive equation adds the two smaller rectangle areas: $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$.
- The correct answer is 4 right angles.** (M.3.26) A square has 4 right angles.
- Choice D is correct.** (M.3.3) Divide: $35 \div 5 = 7$ cards per friend.
- Choice A is correct.** (M.3.4) Both $6 \times 7 = 42$ and $42 \div 6 = 7$ are in the same fact family.
- Choice D is correct.** (M.3.9) Odd \times odd is always odd. Examples: $1 \times 1 = 1$, $3 \times 5 = 15$, $7 \times 9 = 63$.
- Choice D is correct.** (M.3.16) $\frac{2}{4} = \frac{3}{6} = \frac{1}{2}$. Both mark the halfway point on their respective number lines.
- Choice B is correct.** (M.3.18) The minute hand on 3 means 15 minutes. The hour hand between 11 and 12 means the hour is 11. So the time is 11 : 15.
- Choice D is correct.** (M.3.2) Measurement division: $36 \div 6 = 6$. There are 6 groups of 6 stickers.
- Choices A and D are correct.** (M.3.17) $\frac{2}{8}$ and $\frac{1}{4}$ both name one-fourth of a whole. The other choices are not equivalent to $\frac{1}{4}$.
- Choice B is correct.** (M.3.23) 8 square units is larger than 7, 6, or 4 square units.
- Choice D is correct.** (M.3.7) $72 \div 8 = 9$. Each page holds 8 stickers, so 72 stickers fill 9 pages.
- Choice D is correct.** (M.3.23) $9 \times 4 = 36$ unit squares.
- Choice D is correct.** (M.3.16) Point Q is at the first tick of 4 equal divisions from 0 to 3. That is $\frac{1}{4}$.
- Choice A is correct.** (M.3.17) Multiply numerator and denominator by 4: $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$. Both show half.
- Choice B is correct.** (M.3.15) Larger denominators give smaller fractions. $\frac{1}{8} < \frac{1}{4} < \frac{1}{2}$.
- Choice D is correct.** (M.3.1) 5 shelves with 8 boxes each means 5 groups of 8. So $5 \times 8 = 40$ boxes.
- Choice C is correct.** (M.3.19) 1 L = 1000 mL. Subtract: $1000 - 300 = 700$ mL drunk.
- Choice C is correct.** (M.3.16) $\frac{1}{2}$ divides the distance into two equal parts, so it is exactly in the middle.
- Choice B is correct.** (M.3.25) Area = length \times width = $10 \times 2 = 20$ square centimeters.
- Choice A is correct.** (M.3.17) Ava colored one whole because $\frac{4}{4} = 1$. Noah colored less than one whole, so $\frac{4}{4} > \frac{4}{6}$.
- Choice B is correct.** (M.3.6) $28 \div 4 = \square$ means $\square \times 4 = 28$. Since $7 \times 4 = 28$, the answer is 7. Option A ($6 \times 4 = 24$) is off-by-one. Option D confuses the divisor with the quotient.
- The correct answer is 48.** (M.3.5) $6 \times 5 = 30$ and $6 \times 3 = 18$, so $30 + 18 = 48$.
- Choice A is correct.** (M.3.8) Step 1: Subtract donated: $75 - 15 = 60$ figures. Step 2: Divide into boxes: $60 \div 12 = 5$ figures per box. (Choice D is step 1 only.)
- Choice D is correct.** (M.3.14) Skip count by 10s: 10, 20, 30. There are 3 groups of 10 stars, so $3 \times 10 = 30$ stars total.

Practice Test 2 Answers and Explanations

- Choice D is correct.** (M.3.5) The associative property says we can group factors in different ways and still get the same product. The groups change, like $(2 \times 3) \times 4 = 6 \times 4 = 24$ or $2 \times (3 \times 4) = 2 \times 12 = 24$, but the product stays the same.



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Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 6 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 6 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

BUILD CONFIDENCE. MASTER MATH. ACHIEVE SUCCESS!



This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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