

5

West Virginia

WVGSA

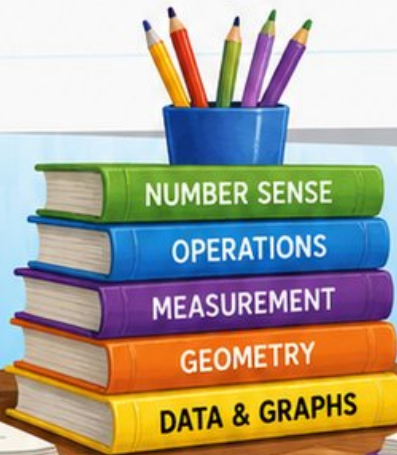
GRADE 3

MATH

PRACTICE TESTS

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

$24 \div 3 = 8$



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-
ALIGNED
PRACTICE



DETAILED
ANSWER KEYS



CLEAR
EXPLANATIONS
TO HELP YOU SUCCEED

5 West Virginia WVGSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five focused 30-question checkpoints for Grade 3 math: facts, 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 Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the West Virginia WVGSA. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

West Virginia has mountain roads, river curves, forest ridges, and strong paths built one step at a time. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

Notice

Circle key words, units, and numbers before you start.

Build

Use arrays, number lines, equations, tables, or sketches.

Verify

Ask, "Does this answer fit the question?"

Five-checkpoint promise: I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

Best review habit: Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	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. That mix gives students practice with quick choices, careful reasoning, and short written answers.

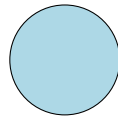


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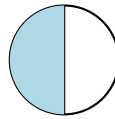
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1) Which circle shows 1 whole?



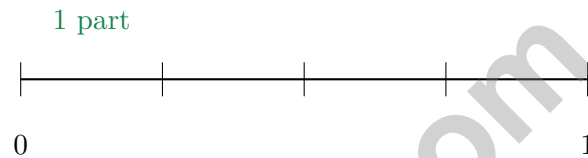
Circle A



Circle B

- A. Circle B
 B. Both circles
 C. Neither
 D. Circle A

2) Count the equal parts on this number line. What unit fraction does it show?



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

3) Find $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$.

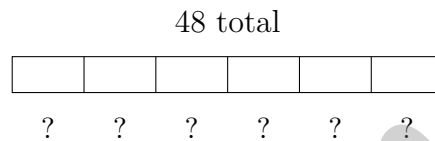
4) Which fraction is NOT equivalent to $\frac{3}{6}$?

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



5) Write $\frac{5}{4}$ as a mixed number.

6) The bar model shows 48 divided into 6 equal parts. What is each part?



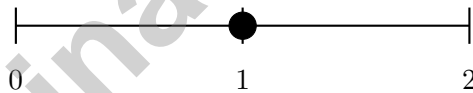
A. 6

C. 10

B. 12

D. 8

7) A number line shows 0 to 2 divided into 2 equal parts. What fraction is at the middle tick mark?



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

C. $\frac{3}{2}$

B. 1

D. $\frac{1}{4}$

8) What is 7×90 ?

A. 63 (forgot the zero)

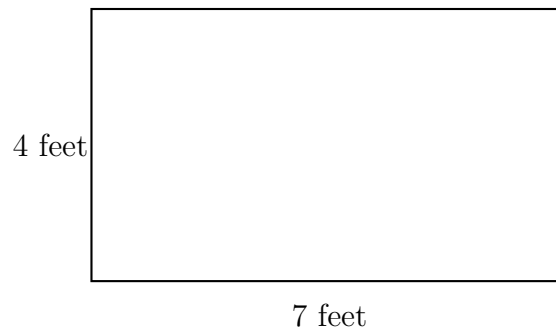
C. 79 (added the digits)

B. 6300 (added two zeros)

D. 630



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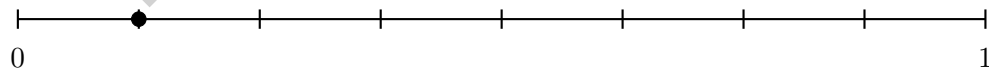


4)

Find the area of the rectangle above.

- A. 22 sq ft C. 14 sq ft
 B. 32 sq ft D. 28 sq ft
- 5) Two buckets hold water. Bucket A holds 4000 mL and Bucket B holds 2500 mL. How much more water does Bucket A hold?
- A. 1000 mL C. 2000 mL
 B. 1500 mL D. 4000 mL
- 6) Lily's sandbox is a square with sides of 5 feet. How many square feet is the sandbox?
- A. 10 sq ft C. 25 sq ft
 B. 20 sq ft D. 30 sq ft

7) Which statement about $\frac{1}{8}$ on an 8-part number line is FALSE?



- A. $\frac{1}{8}$ is at the first tick C. $\frac{1}{8}$ equals $\frac{2}{4}$
 B. $\frac{1}{8}$ is closer to 0 than 1 D. $\frac{1}{8}$ is one equal part out of eight



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4) Round 589 to the nearest 100.

A. 500

C. 590

B. 580

D. 600

5) Talia has 45 stickers. She wants to arrange them in 9 equal rows. How many stickers will be in each row?

A. 4 stickers

C. 6 stickers

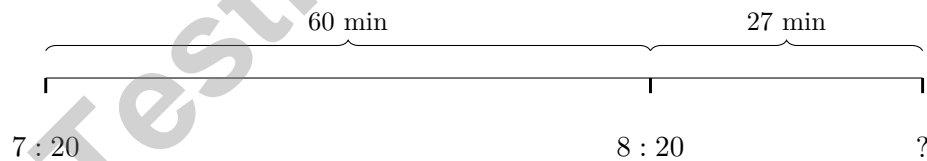
B. 7 stickers

D. 5 stickers

6) A room is 7 feet long and 4 feet wide. Explain how you would count the unit squares in this rectangle. Would you count by rows or by columns? Show your work.



7) A movie starts at 7 : 20 PM. The actual movie is 87 minutes long. What time does the movie end?



A. 8 : 37 PM

C. 8 : 53 PM

B. 8 : 47 PM

D. 9 : 00 PM



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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 D is correct.** **(3.NF.A.3c)** Circle A is completely shaded = $\frac{1}{1} = 1$ whole. Circle B is only half shaded.
- 2) **Choice B is correct.** **(3.NF.A.2a)** Four equal parts on the number line give unit fraction $\frac{1}{4}$.
- 3) **The correct answer is $\frac{3}{8}$.** **(3.NF.A.1)** Add the numerators: $1 + 1 + 1 = 3$, so the sum is $\frac{3}{8}$.
- 4) **Choice D is correct.** **(3.NF.A.3b)** $\frac{3}{6} = \frac{1}{2}$. Choices A, B, and C are all equivalent to $\frac{1}{2}$. Only $\frac{2}{3}$ is not equivalent.
- 5) **The correct answer is $1\frac{1}{4}$.** **(3.NF.A.2b)** $\frac{5}{4} = 1\frac{1}{4}$.
- 6) **Choice D is correct.** **(3.OA.B.6)** The bar is divided into 6 equal parts with a total of 48. Each part is $48 \div 6 = 8$. You can check: $8 \times 6 = 48$.
- 7) **Choice B is correct.** **(3.NF.A.2)** On a number line from 0 to 2, the middle tick mark is at 1, which is halfway between 0 and 2.
- 8) **Choice D is correct.** **(3.NBT.A.3)** Multiply $7 \times 9 = 63$, then multiply by 10 to get 630: $7 \times 90 = (7 \times 9) \times 10 = 63 \times 10 = 630$.
- 9) **Choice A is correct.** **(3.OA.A.3)** Divide: $36 \div 4 = 9$ books per shelf.
- 10) **Choice C is correct.** **(3.MD.B.4)** Count the X's directly above the $250\frac{1}{4}$ mark. There are three X's stacked there.
- 11) **Choice B is correct.** **(3.MD.C.5b)** $9 \times 7 = 63$ unit squares cover the tile.
- 12) **Choice D is correct.** **(3.OA.D.9)** $3 \times 1 = 3$, $3 \times 2 = 6$, $3 \times 3 = 9$, etc. The difference between consecutive products is always 3.
- 13) **Choice A is correct.** **(3.OA.B.5)** 7×6 is one more group of 6 than 6×6 . So $36 + 6 = 42$.
- 14) **Choice D is correct.** **(3.MD.B.3)** Pile 1: $4 \times 3 = 12$. Pile 2: $5 \times 3 = 15$. Total: $12 + 15 = 27$.
- 15) **Choices A and C are correct.** **(3.OA.D.8)** Multiply tables by chairs per table: $9 \times 4 = 36$. Then add: $36 + 8 = 44$. Choices A and C both correctly compute $(9 \times 4) + 8 = 44$. Choice B adds all three numbers (incorrect order). Choice D applies order of operations wrong. Choice E adds first then multiplies (wrong method).
- 16) **Choice A is correct.** **(3.MD.A.1)** From 9 : 15 to 10 : 15 is 60 minutes. The class ends at 10 : 05, 10 minutes earlier: $60 - 10 = 50$ minutes. Distractor C (just adds 1 hour), B (off-by-5), D (subtracts too much).
- 17) **Choice A is correct.** **(3.MD.C.7d)** Add all four parts: $8 + 6 + 6 + 4 = 24$ square units.
- 18) **Choice B is correct.** **(3.MD.A.2)** Divide: $2000 \div 5 = 400$ mL per glass.
- 19) **Choice D is correct.** **(3.OA.A.4)** Both $5 \times 6 = 30$ and $30 \div 5 = 6$ are in the same fact family.
- 20) **Choice A is correct.** **(3.MD.C.7c)** Left rectangle: Area = 10, Height = 2, so Width = $10 \div 2 = 5$. Check: $2 \times (5 + 3) = 2 \times 8 = 16 = 10 + 6$.
- 21) **Choice D is correct.** **(3.OA.A.1)** Skip counting by 3 six times gives 0, 3, 6, 9, 12, 15, 18. This represents 6 groups of 3, so $6 \times 3 = 18$.
- 22) **The correct answer is 623.** **(3.NBT.A.2)** Ones: $5 + 8 = 13$ (write 3, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $3 + 2 + 1 = 6$. Final answer: 623.
- 23) **Choice A is correct.** **(3.NF.A.3d)** $\frac{1}{2}$ and $\frac{2}{4}$ cover the same amount. They are equivalent fractions.
- 24) **Choice A is correct.** **(3.NBT.A.1)** First round 328 to nearest 10: ones digit is $8 \geq 5$, so 328 rounds to 330. Then round 330 to nearest 100: tens digit is $3 < 5$, so 330 rounds down to 300. This is a two-step rounding process (double rounding).
- 25) **Choice B is correct.** **(3.MD.C.7a)** Wide rectangle: $6 \times 2 = 12$ square units.
- 26) **Choice B is correct.** **(3.MD.C.7)** With length 5 and width 4, you add the width 4 five times: $4 + 4 + 4 + 4 + 4 = 20$. This equals $5 \times 4 = 20$ square units.
- 27) **Choice A is correct.** **(3.NF.A.3a)** Both Bar 1 and Bar 4 show $\frac{1}{3}$ shaded. They represent the same amount.
- 28) **Choice B is correct.** **(3.MD.C.5)** Area must be measured in square units because it describes 2D space. Square feet, square inches, square meters, and square centimeters are all correct area units.
- 29) **Choice C is correct.** **(3.MD.C.5a)** Length times width: $5 \times 3 = 15$ unit squares of 1 inch by 1 inch.
- 30) **Choice B is correct.** **(3.G.A.1)** In a rectangle, opposite sides are equal. The opposite long side is also the length, which is 6 cm.



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Hi, Math Detective!

◇ You did such a great job! You finished 5 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

Build Skills. Boost Confidence. Excel in Grade 3 Math!

This book provides 5 full-length Grade 3 math practice tests that follow standards and help students achieve real results.



5 Full-Length Practice Tests

Realistic tests to build stamina and familiarity.



Standards-Aligned Practice

Questions match Grade 3 math standards and key skills.



Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



Review & Master Skills

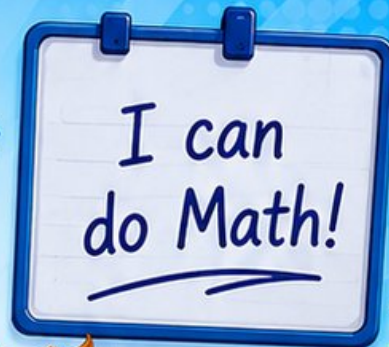
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- ✓ And More!



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and practice materials!



$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



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to Succeed in Grade 3 Math!



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