

9

West Virginia

WVGSA

GRADE 3 MATH

PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY



10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 West Virginia WVGSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with 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, Start Your Nine-Round Math Map

A brave Grade 3 journey from first try to confident finish

This book gives you nine chances to practice like a thoughtful West Virginia WVGSA test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

West Virginia has mountain hollows, river rapids, forest roads, coal-town history, and patient practice, where careful steps matter. Strong math follows that same idea: model what the question asks, choose a useful tool, show the work, and reason before moving on.

Your West Virginia Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear West Virginia review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In West Virginia, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with WVGSA support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A West Virginia standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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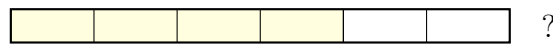
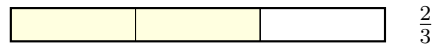
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1) If a number line from 0 to 1 is split into 3 equal parts, what fraction marks the first partition?

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

- C. $\frac{1}{4}$
 D. $\frac{1}{5}$

2) Look at the bars. Which fraction is equivalent to $\frac{2}{3}$?



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

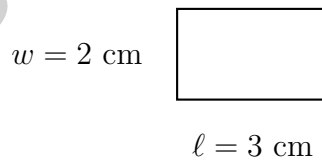
- C. $\frac{4}{6}$
 D. $\frac{3}{4}$

3) What is $40 \div 5$?

- A. 7
 B. 10

- C. 9
 D. 8

Shape S

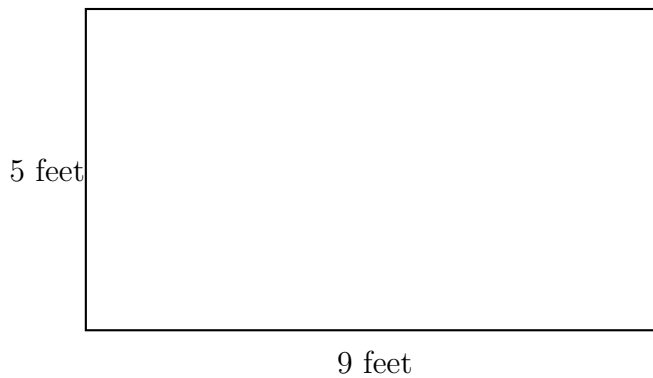


4)

Shape S is a rectangle with length 3 cm and width 2 cm. How many pairs of equal sides does it have?

- A. 1 pair
 B. 2 pairs

- C. 3 pairs
 D. 4 pairs

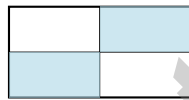


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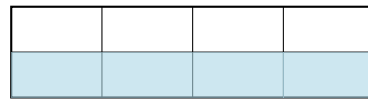
A rectangular swimming pool is 9 feet long and 5 feet wide. What is the area?

- A. 28 sq ft
- B. 14 sq ft
- C. 45 sq ft
- D. 90 sq ft

11) Two rectangles are divided into equal parts and some parts are shaded. Rectangle X is divided into 4 equal parts with 2 parts shaded. Rectangle Y is divided into 8 equal parts with 4 parts shaded. Do the two rectangles have the same amount of area shaded?



Rectangle X: 2 out of 4 shaded



Rectangle Y: 4 out of 8 shaded

- A. Rectangle X has more area shaded
- B. Rectangle Y has more area shaded
- C. Both have the same area shaded
- D. Cannot tell by looking

12) Which fraction is equivalent to $\frac{1}{2}$ by multiplying numerator and denominator by 3?

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

1) Noah has 18 crayons and 2 friends. He divides the crayons equally among his friends and himself. How many crayons does each person get?

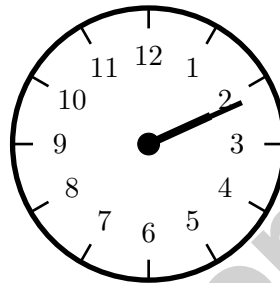
A. 9

C. 20

B. 16

D. 6

2) What time is shown on the clock below?



A. 2 : 11

C. 11 : 02

B. 2 : 35

D. 11 : 10

3) Ava has two square tiles. One tile has an area of 9 square inches. The other has an area of 16 square inches. Which tile is smaller?

A. The 9 square inch tile

C. Both tiles are the same size

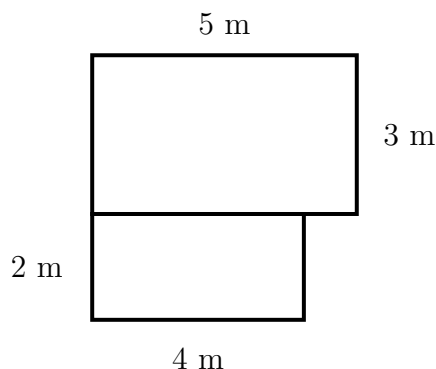
B. The 16 square inch tile

D. Cannot be determined



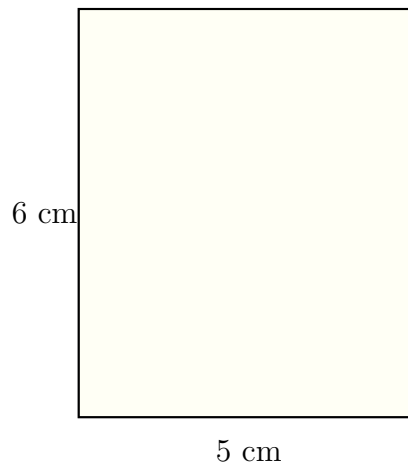
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- 4) Ben's room is shaped like an L. One part is 5 m by 3 m. The other part is 4 m by 2 m. What is the total area?



- A. 15 sq m C. 8 sq m
 B. 23 sq m D. 120 sq m
- 5) A line plot shows seashell lengths in inches: 3, $3\frac{1}{4}$, $3\frac{1}{2}$, $3\frac{3}{4}$. The sum of X's at 3 and $3\frac{1}{4}$ is 5. The sum at $3\frac{1}{2}$ and $3\frac{3}{4}$ is 3. If there are 2 shells at 3 inches, how many are at $3\frac{1}{4}$ inches?
- A. 2 C. 4
 B. 3 D. 5
- 6) Which split could show $6 \times (4 + 3) = (6 \times 4) + (6 \times 3)$?
- A. Two rectangles share a 6-unit side; the other sides are 4 and 3 C. One rectangle is not split into parts
 B. Two rectangles have no matching side lengths D. One rectangle is split into three unrelated parts





1)

A rectangular notebook is 5 centimeters wide and 6 centimeters tall. Find the area.

- A. 11 sq cm C. 22 sq cm
 B. 30 sq cm D. 60 sq cm

2) Sofia buys packages of toy blocks. Each package has 20 blocks. She buys 6 packages. How many blocks does she have?

- A. 26 C. 120
 B. 62 D. 200

3) Which comparison is true?

- A. $\frac{3}{3} > \frac{3}{8}$ C. $\frac{3}{3} = \frac{3}{8}$
 B. $\frac{3}{3} < \frac{3}{8}$ D. $\frac{3}{8} = \frac{3}{3}$

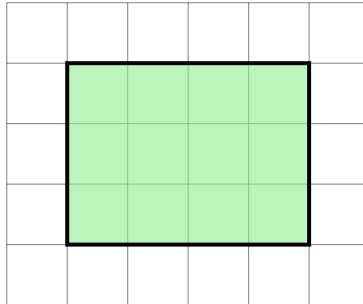
4) Noah is looking at two number lines. He marks $\frac{1}{3}$ on one and $\frac{2}{6}$ on the other. Are these marks at the same location?

- A. They are not on the same line. C. No, $\frac{1}{3}$ is further right.
 B. No, $\frac{2}{6}$ is further right. D. Yes, at the same spot.



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- 5) Count the shaded square units on this grid without using multiplication. Is it possible?



- A. Yes, you can count them one by one
- B. No, you must multiply
- C. Only if the shape is a square
- D. Only if you know the perimeter
- 6) A number line from 0 to 1 is divided so there are exactly 4 equal parts. If you mark the first partition, what fraction do you mark?
- A. $\frac{1}{4}$
- B. $\frac{1}{3}$
- C. $\frac{1}{5}$
- D. $\frac{4}{4}$
- 7) Which shows a correct way to find the total area of an L-shaped figure?
- A. Multiply the length times the width once
- B. Break it into rectangles and add their areas
- C. Multiply the perimeter by 2
- D. Count only the longest parts



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 B is correct.** (M.3.15) Splitting from 0 to 1 into three equal parts gives $\frac{1}{3}$ for each.
- Choice C is correct.** (M.3.17) The shaded regions match. $\frac{2}{3}$ and $\frac{4}{6}$ are equivalent.
- Choice D is correct.** (M.3.7) $40 \div 5 = 8$ because $8 \times 5 = 40$.
- Choice B is correct.** (M.3.26) The rectangle has two sides that are 3 cm (the length) and two sides that are 2 cm (the width). This makes 2 pairs of equal sides.
- Choice C is correct.** (M.3.19) Add: $750 + 250 = 1000$ mL.
- Choice D is correct.** (M.3.16) Point D is at 2.5. Count from 0: the 10th fourth-mark is at $\frac{10}{4} = 2\frac{2}{4} = 2\frac{1}{2}$.
- Choice D is correct.** (M.3.6) The fact family for $7 \times 8 = 56$ includes both $56 \div 7 = 8$ and $56 \div 8 = 7$.
- Choice B is correct.** (M.3.17) Same numerator (3), different denominators, same chocolate bar: fourths are larger pieces than eighths. So $\frac{3}{4}$ is more than $\frac{3}{8}$. Noah has more because he has 3 larger pieces.
- The correct answer is 200.** (M.3.14) Multiply $4 \times 5 = 20$, then add one zero: $4 \times 50 = 200$.
- Choice C is correct.** (M.3.25) Area = length \times width = $9 \times 5 = 45$ square feet.
- Choice C is correct.** (M.3.27) Rectangle X: $\frac{2}{4}$ shaded is half. Rectangle Y: $\frac{4}{8}$ shaded is also half. Even though one has 4 parts and the other has 8 parts, the same amount of area is shaded in both rectangles.
- Choice B is correct.** (M.3.17) Multiply numerator and denominator by 3: $\frac{1 \times 3}{2 \times 3} = \frac{3}{6}$.
- Choice C is correct.** (M.3.21) At 1 mm there are 4 X's, which is the highest count.
- Choice C is correct.** (M.3.8) Step 1: Total money: $15 + 20 = 35$ dollars. Step 2: Subtract spent: $35 - 18 = 17$ dollars left.
- Choices A and C are correct.** (M.3.15) A unit fraction has a numerator of exactly 1. Picture A is divided into 2 equal parts with 1 shaded = $\frac{1}{2}$ (unit fraction). Picture C is divided into 3 equal parts with 1 shaded = $\frac{1}{3}$ (unit fraction). Picture B shows $\frac{2}{5}$ (numerator is 2), and Picture D shows $\frac{3}{5}$ (numerator is 3), so neither B nor D is a unit fraction.
- Choice A is correct.** (M.3.9) Each product is 4 times a whole number. Since 4 is even, every multiple of 4 is even. This is true for all even numbers: even \times (any number) = even.
- Choice D is correct.** (M.3.1) 7 tables with 8 books each means 7 groups of 8. So $7 \times 8 = 56$ books.
- Choice A is correct.** (M.3.2) $24 \div 6$ divides 24 items into 6 equal groups, which matches sharing 24 cookies among 6 friends.
- Choice C is correct.** (M.3.18) From 4 : 30 to 5 : 30 is 1 hour (60 minutes). From 5 : 30 to 5 : 42 is 12 more minutes. Total: $60 + 12 = 72$ minutes.
- Choice D is correct.** (M.3.4) Use the inverse: $8 \times 5 = 40$, so $40 \div 5 = 8$.
- Choice A is correct.** (M.3.23) A unit square has side length 1 unit. If measured in inches, that is 1 in \times 1 in = 1 square inch.
- Choice C is correct.** (M.3.22) Bottom rectangle: $4 \times 3 = 12$ sq units. Top rectangle: $2 \times 2 = 4$ sq units. Total: $12 + 4 = 16$ sq units.
- The correct answer is $\frac{4}{1}$.** (M.3.27) Any whole number n can be written as $\frac{n}{1}$. So $4 = \frac{4}{1}$.
- Choice C is correct.** (M.3.16) $\frac{7}{8}$ means 7 out of 8 equal parts, which is the seventh tick mark from 0.
- Choice B is correct.** (M.3.20) Remaining hearts: $8 - 3 = 5$. Convert to stickers: $5 \times 2 = 10$ stickers.
- Choice A is correct.** (M.3.22) $8 \times 3 = 24$ square units, same as Rectangle A.
- Choice D is correct.** (M.3.16) $\frac{3}{6} = \frac{1}{2}$. Both mark the halfway point on a number line.
- Choice A is correct.** (M.3.12) The ones digit is 4. Since $4 < 5$, round down: 254 rounds to 250.
- The correct answer is 36 sq cm.** (M.3.23) Since it's a square, both rows and columns equal 6. Students should show repeated addition.
- Choice D is correct.** (M.3.22) $3 \times 10 = 30$ unit square tiles.



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Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 9 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

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