

5

Virginia SOL

Standards-Aligned Review with
Mixed Practice and Answer Key



5 Virginia SOL Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five complete 30-question Grade 4 practice rounds for SOL, built around blue ridge views, historic roads, and clear thinking habits, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Virginia Math Explorer!

Five steady rounds on the Old Dominion math route

This book gives you five full Grade 4 practice tests for SOL. Each round uses blue ridge views, historic roads, and clear thinking habits to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Virginia Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Virginia SOL review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Old Dominion math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Five tests, 150 questions, and a full SOL review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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& answers

Table of Contents

★ Practice Test 1	_____	13
★ Practice Test 2	_____	25
★ Practice Test 3	_____	36
★ Practice Test 4	_____	48
★ Practice Test 5	_____	59
Practice Test Answer Keys	_____	70
Practice Test Answers and Explanations	_____	74

1) Which angle is the largest?

Angle X



Angle Y



Angle Z



A. Angle X

B. Angle Y

C. Angle Z

D. All are equal

2) Jackson has $3\frac{5}{6}$ cups of juice. He drinks $2\frac{2}{6}$ cups. How much juice remains?

A. $1\frac{3}{6}$

B. $1\frac{2}{6}$

C. $5\frac{7}{6}$

D. $2\frac{3}{6}$

3) Noah buys 3 bottles of water, each containing 500 milliliters. How many milliliters of water does he buy in total?

A. 500 mL

B. 1,000 mL

C. 1,500 mL

D. 2,000 mL

4) Divide both the numerator and denominator of $\frac{12}{16}$ by 4. What fraction do you get?

A. $\frac{8}{12}$

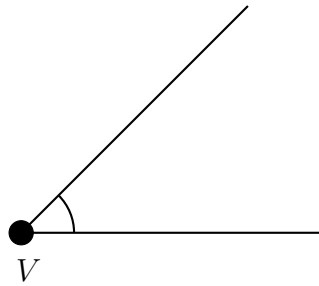
B. $\frac{4}{12}$

C. $\frac{6}{8}$

D. $\frac{3}{4}$



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5)

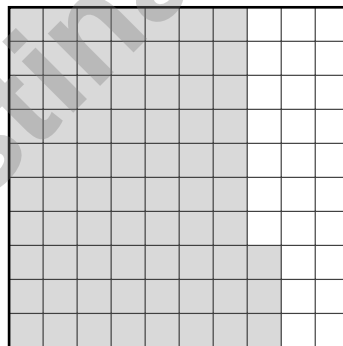
What is labeled with the letter V in the diagram above?

- A. A ray
- B. The vertex
- C. The arc
- D. A side

6) What is $7 \times \frac{1}{5}$ as a mixed number?

- A. $\frac{1}{35}$
- B. $\frac{7}{1}$
- C. $2\frac{2}{5}$
- D. $\frac{7}{5}$ or $1\frac{2}{5}$

7) Look at the grid below with hundredths shaded.



What decimal is shown?

- A. 0.62
- B. 0.72
- C. 0.73
- D. 0.82

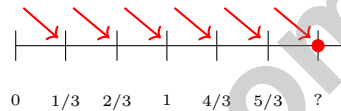
8) Which figure is NOT a quadrilateral?

- A. Square C. Rectangle
 B. Triangle D. Trapezoid

9) What is 8×425 ?

- A. 3200 C. 3300
 B. 3500 D. 3400

10) A number line shows jumps of $\frac{1}{3}$ starting at 0. If you make 6 jumps, where do you land?



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

11) Round 11,550 to the nearest hundred.

- A. 11,500 C. 11,550
 B. 11,000 D. 11,600

12) $\frac{13}{10}$ can be decomposed as $1\frac{3}{10}$. Which equation shows this?

- A. $\frac{10}{10} + \frac{3}{10}$ C. $\frac{8}{10} + \frac{4}{10}$
 B. $\frac{10}{10} + \frac{4}{10}$ D. $\frac{6}{10} + \frac{6}{10}$



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1) Which number completes the equation? $___ \times \frac{1}{5} = \frac{3}{5}$

A. 1

C. 3

B. 2

D. 5

2) A string is cut into 2 equal pieces. Both pieces are used. Which sum of unit fractions shows this?

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

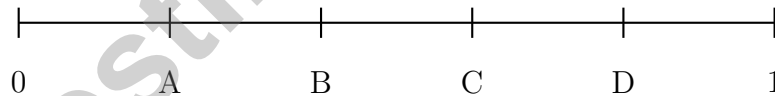
C. $\frac{2}{2}$

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

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

3) Find $4 \times \frac{1}{3}$.

4) Where does 0.2 belong on this number line?



A. At position A

C. At position C

B. At position B

D. At position D

5) The letter *M* has how many lines of symmetry?

A. 0

C. 2

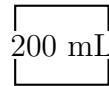
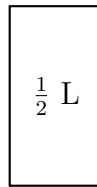
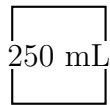
B. 1

D. 3



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Liquid Containers

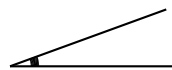


- 6) Container A Container B Container C

If you pour all three containers together, how many milliliters of liquid do you have in total?

- A. 450 mL C. 750 mL
 B. 650 mL D. 950 mL
- 7) Each plant needs $\frac{1}{6}$ gallon of water. Olivia has 8 plants. How much water does she need?
- A. $\frac{1}{48}$ gallon C. $\frac{7}{6}$ gallon
 B. $\frac{8}{6}$ gallon or $1\frac{1}{3}$ gallons D. $\frac{8}{1}$ gallon
- 8) What is the correct way to order 0.91, 0.19, 0.99, and 0.11 from greatest to least?
- A. 0.99, 0.91, 0.19, 0.11 C. 0.11, 0.19, 0.91, 0.99
 B. 0.91, 0.99, 0.11, 0.19 D. 0.99, 0.91, 0.11, 0.19

9)



What is the measure of this angle?

- A. 10° C. 40°
 B. 20° D. 2°



- 1) A school cafeteria prepares 24 trays of food. Each tray serves 12 people. How many people can be served?

- 2) Which pattern shows only odd numbers?

- A. 2, 4, 6, 8, 10 C. 2, 3, 4, 5, 6
 B. 1, 3, 5, 7, 9 D. 5, 10, 15, 20, 25

- 3) Maya built a model of the number 2,345 using base-ten blocks. How many thousands blocks did she use?



- A. 5 C. 4
 B. 3 D. 2
- 4) Which equation shows $\frac{11}{12}$ as a sum of two fractions?

- A. $\frac{6}{12} + \frac{5}{12}$ C. $\frac{8}{12} + \frac{2}{12}$
 B. $\frac{7}{12} + \frac{3}{12}$ D. $\frac{9}{12} + \frac{1}{12}$



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Practice Test Answer Keys

How to use this section with a Grade 4 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.** (4.MG.4) Angle Y opens wider than the others — it stretches out the most. Angles X and Z are both small and pointy, while Angle Y is nice and wide.
- Choice A is correct.** (4.NS.1) Jackson starts with juice and drinks some. Subtract the amount he drinks: $3\frac{5}{6} - 2\frac{2}{6} = 1\frac{3}{6}$ cups of juice remain.
- Choice C is correct.** (4.MG.2) Noah buys 3 bottles, each holding 500 mL. Multiply: $3 \times 500 = 1,500$ mL. He buys 1,500 milliliters in total.
- Choice D is correct.** (4.NS.5) Divide both numerator and denominator by 4: $\frac{12}{16} = \frac{12 \div 4}{16 \div 4} = \frac{3}{4}$.
- Choice B is correct.** (4.MG.4) Point V marks the vertex—the point where the two rays meet.
- Choice D is correct.** (4.CE.3) We take 7 copies of $\frac{1}{5}$. Multiply: $7 \times \frac{1}{5} = \frac{7 \times 1}{5} = \frac{7}{5} = 1\frac{2}{5}$. The answer is $1\frac{2}{5}$.
- Choice C is correct.** (4.CE.3) Count the shaded squares: 7 full columns (that's 70 squares) plus 3 extra squares make 73 squares total. So the decimal is 73 hundredths = 0.73.
- Choice B is correct.** (4.MG.4) A triangle has three sides and three angles. By definition, a quadrilateral must have four sides and four angles. Since a triangle does not have four sides, it is not a quadrilateral. The answer is B.
- Choice D is correct.** (4.NS.1) Break 425 into parts: $8 \times (400 + 20 + 5) = 3200 + 160 + 40 = 3400$.
- Choice C is correct.** (4.CE.3) Each jump is $\frac{1}{3}$. Making 6 jumps is the same as $6 \times \frac{1}{3} = \frac{6}{3}$. Since 3 thirds make one whole, $\frac{6}{3}$ equals 2 wholes.
- Choice D is correct.** (4.NS.1) We're rounding to the nearest hundred. Look at the tens digit: 5. Since $5 \geq 5$, we round UP! The hundreds digit changes from 5 to 6, giving us **11,600**. ✓
- Choice A is correct.** (4.NS.1) One whole equals $\frac{10}{10}$, plus $\frac{3}{10}$ more: $10 + 3 = 13$, so $\frac{10}{10} + \frac{3}{10} = \frac{13}{10} = 1\frac{3}{10}$. ✓
- Choice B is correct.** (4.CE.3) Convert the fractions to decimals: $\frac{2}{10} = 0.2$ and $\frac{4}{10} = 0.4$. The decimal 0.3 fits between them.
- Choice A is correct.** (4.NS.1) We round 4,156 to the compatible number 4,000 (a number that divides nicely by 4). Since $4,000 \div 4 = 1,000$, the quotient is about **1,000**. Why "compatible"? It makes mental math easy.
- The correct answer is A, C.** (4.NS.1) Check A: $2\frac{2}{4} + 2\frac{3}{4} = 4\frac{5}{4}$. Since $\frac{5}{4} = 1\frac{1}{4}$, regroup to get $5\frac{1}{4}$. Correct! Check B: $4\frac{3}{4} + 1 = 5\frac{3}{4}$. No. Check C: $3\frac{1}{4} + 2 = 5\frac{1}{4}$. Correct! Check D and E: They equal different values. So A and C are correct.
- Choice D is correct.** (4.MG.4) A square is perfectly balanced! Imagine folding it in half four different ways: vertically through the center, horizontally through the center, and diagonally both directions—each fold creates matching halves. The answer is 4 lines of symmetry.
- Choice D is correct.** (4.NS.1) Check the differences: $18 - 9 = 9$, $27 - 18 = 9$. Each increases by 9 (multiples of 9). ✓
- Choice C is correct.** (4.NS.5) A fraction is less than 1 when the numerator is less than the denominator. In $\frac{7}{10}$, $7 < 10$. ✓. The other three have numerators bigger than denominators.
- Choice D is correct.** (4.NS.1) Look for any factor besides 1 and 27. Since $27 = 3 \times 9$, both 3 and 9 are also factors. With factors 1, 3, 9, 27 (more than two), 27 is **composite**.
- Choice A is correct.** (4.NS.1) Look at the bar: 5 equal parts total, and 2 are shaded. So **2** unit fractions of $\frac{1}{5}$ are shaded.
- The correct answer is $\frac{50}{100}$.** (4.CE.3) Think about place value: 1 tenth = 10 hundredths (because each tenth strip splits into 10 hundredth squares). So 5 tenths = $5 \times 10 = 50$ hundredths. Written as fractions: $\frac{5}{10} = \frac{5 \times 10}{10 \times 10} = \frac{50}{100}$. ✓
- Choice A is correct.** (4.NS.1) Add: $2,345 + 7,654 = 9,999$. The digits complement each other perfectly!
- Choice C is correct.** (4.CE.3) Maya hops by halves: $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}$. After 3 hops, she reaches $\frac{3}{2}$.
- Choice D is correct.** (4.CE.3) Add up all the pencils: $1 + 3 + 2 = 6$ pencils in total.
- Choice D is correct.** (4.NS.1) From the chart, the hundreds digit is 2. Its value is $2 \times 100 = 200$. Statement B is true. ✓
- Choice C is correct.** (4.CE.1) Follow the flow chart! Step 1: $72 \div 8 = 9$ apples in each basket. Step 2: add 4 more to each basket: $9 + 4 = 13$ apples per basket now.



A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 5 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

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- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
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- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
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