

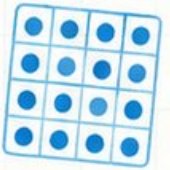
10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



$$\frac{3}{4}$$



Virginia

SOL

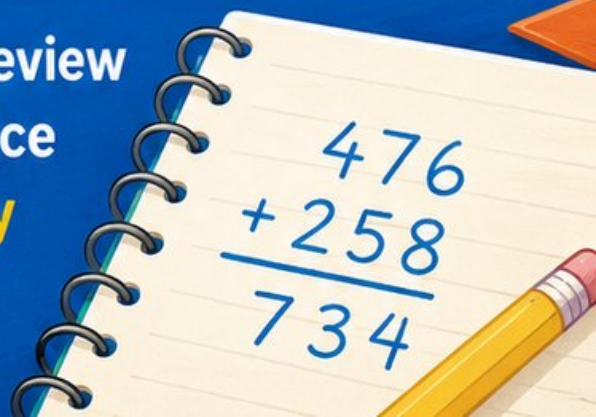
GRADE 4

MATH



PRACTICE TESTS

Standards-Aligned Review
with Mixed Practice
and **Answer Key**



10 Virginia SOL Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Old Dominion math route

This book gives you ten 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?

Ten tests, 300 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 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Virginia book.
Answer Pages	Compact keys and explanations that show why each answer works.

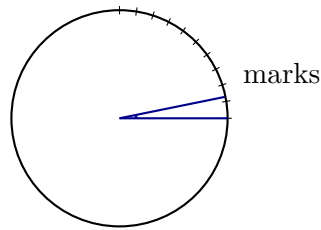
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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For more practice
& answers

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1)

This angle reaches the first 9° mark. How many one-degree angles make this angle?

- A. 9 one-degree angles C. 18 one-degree angles
 B. 4.5° D. 1°

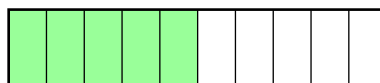
2) A shape is a quadrilateral with two pairs of parallel sides and four equal sides, but no right angles. What is it?

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

3) What is $2 \times \frac{2}{5}$?

- A. $\frac{2}{10}$ C. $\frac{4}{5}$
 B. $\frac{4}{10}$ D. $\frac{2}{7}$

4) Look at the model.



Which answer uses tenths to match this model?

- A. $\frac{2}{10}$ C. $\frac{4}{5}$
 B. $\frac{5}{10}$ D. $\frac{6}{10}$



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5) Sam has a ribbon $\frac{6}{8}$ yard long. He cuts it into two equal pieces. Each piece is:

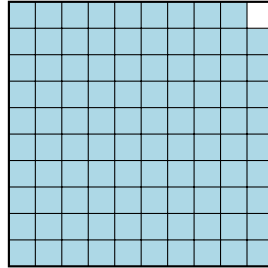
A. $\frac{2}{8}$ yard

B. $\frac{3}{8}$ yard

C. $\frac{4}{8}$ yard

D. $\frac{6}{8}$ yard

6) What decimal is shown by the shaded part of the hundredths grid?



99 out of 100 shaded

A. 0.01

B. 0.10

C. 0.99

D. 0.90

7) What does a point represent in geometry?

A. An exact location with no size or shape

B. A small circle on a diagram

C. The corner of a shape

D. The space between two lines

8) A park ranger counts animals. She counts 6 groups of deer with 12 deer per group, and 7 groups of rabbits with 12 rabbits per group. How many total animals does she count?

A. 192 animals

B. 144 animals

C. 136 animals

D. 156 animals



9) An art class has 8 paintbrushes. Another art class has 4 times as many paintbrushes. How many paintbrushes does the other class have?

A. 12

C. 32

B. 24

D. 40

10) A recipe calls for $\frac{1}{4}$ cup of sugar. If Miguel triples the recipe, how much sugar does he need?

A. $\frac{1}{12}$ cup

C. $\frac{3}{4}$ cup

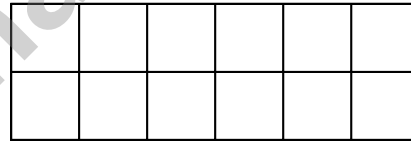
B. $\frac{1}{3}$ cup

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

11) Maya has 7 pounds of flour. How many ounces of flour does she have?



2 units



6 units

12)

Each small square is 1 square unit. What is the area of the rectangle?

A. 8 sq units

C. 12 sq units

B. 10 sq units

D. 16 sq units



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1) Which angle is acute?

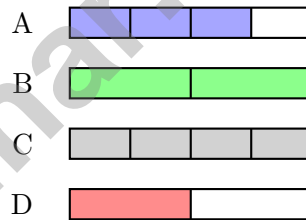


- A. Diagram A C. Diagram C
 B. Diagram B D. Diagram D

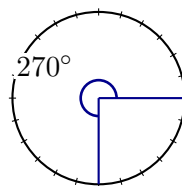
2) Which number comes next in the pattern? 2, 6, 10, 14, 18, __

- A. 20 C. 24
 B. 26 D. 22

3) Which picture shows $\frac{3}{4}$ as a sum of unit fractions?



- A. 3 of 4 parts C. 4 of 4 parts
 B. 2 of 2 parts D. 1 of 2 parts



4)

This is a reflex angle measuring 270 degrees. How many one-degree angles make it?

- A. 135 one-degree angles C. 540 one-degree angles
 B. 270 one-degree angles D. 27 one-degree angles



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& answers

5) How many copies of $\frac{1}{10}$ are in $\frac{9}{10}$?

6) A rectangle has a perimeter of 42 inches. The length is 12 inches. What is the width?

A. 6 in

C. 8 in

B. 9 in

D. 18 in

7) A reading challenge requires finishing $\frac{9}{12}$ of a book this week and $\frac{2}{12}$ next week. After both weeks, how much of the book is left?

A. $\frac{1}{12}$

C. $\frac{7}{12}$

B. $\frac{11}{12}$

D. $\frac{12}{12}$

8) A full rotation is 360° . If part of the rotation is 215° , what angle remains to complete the full rotation?

A. 145°

C. 575°

B. 215°

D. 180°

9) A builder has 100 meters of fencing. He uses 35 meters for one garden and 28 meters for another. How much fencing is left?

A. 28 m

C. 63 m

B. 37 m

D. 65 m



5) Which number sentence is correct?

A. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{12}$

B. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$

C. $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{3}{9}$

D. $\frac{1}{6} + \frac{1}{6} = \frac{2}{12}$

6) A pattern is: 1, 4, 9, 16, 25, ... What is the next term?

 A. 30 B. 35 C. 36 D. 40

7) Simplify $\frac{2}{8}$.

8) A carpenter measures an angle made by two boards. The angle is split by a third board into parts measuring 38° and 52° . What is the total angle measure?

 A. 14° B. 90° C. 76° D. 52°

9) A coach has 3 teams. Team A has 18 players, Team B has 22 players, and Team C has 20 players. They want to divide all players equally into 8 groups. How many players are in each group, and how many players are left over?

 A. 15 B. 8 C. 6 remainder 2 D. 7 remainder 4

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For more practice
& answers

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 A is correct.** **(4.MG.4)** The small angle reaches the first degree mark at 9° , containing **9** one-degree angles.
- Choice C is correct.** **(4.MG.4)** A rhombus has two pairs of parallel sides and four sides of equal length, but does not require right angles. This is what distinguishes it from a square. The answer is **C**.
- Choice C is correct.** **(4.CE.3)** We take 2 copies of $\frac{2}{5}$. Multiply: $2 \times \frac{2}{5} = \frac{2 \times 2}{5} = \frac{4}{5}$. The answer is $\frac{4}{5}$.
- Choice B is correct.** **(4.CE.3)** The bar is split into 10 equal sections with 5 shaded. This represents $\frac{5}{10}$.
- Choice B is correct.** **(4.NS.1)** Sam's ribbon is $\frac{6}{8}$ yard. Cut into two equal pieces means each piece is half: $\frac{6}{8} \div 2 = \frac{3}{8}$ ✓.
- Choice C is correct.** **(4.CE.3)** The picture shows a hundredths grid with just one square left blank. That means 99 out of 100 are shaded: $\frac{99}{100} = 0.99$.
- Choice A is correct.** **(4.MG.4)** A point is simply a precise spot in space — like marking a location on a map with a pin. It has no length, width, or height; we just draw it as a tiny dot to show where it is.
- Choice D is correct.** **(4.CE.1)** Three steps! Step 1: deer total: $6 \times 12 = 72$. Step 2: rabbit total: $7 \times 12 = 84$. Step 3: add for grand total: $72 + 84 = 156$ animals.
- Choice C is correct.** **(4.MG.2)** “4 times as many” is a multiplication signal: $4 \times 8 = 32$ paintbrushes.
- Choice C is correct.** **(4.CE.3)** Tripling means we multiply by 3. Since each part is $\frac{1}{4}$ cup, we get $3 \times \frac{1}{4} = \frac{3}{4}$ cup.
- The correct answer is 112.** **(4.MG.2)** Since 1 pound = 16 ounces, multiply: $7 \times 16 = 112$ ounces.
- Choice C is correct.** **(4.MG.3)** The grid shows 6 units by 2 units. Area = $6 \times 2 = 12$ sq units.
- Choice D is correct.** **(4.NS.1)** Divide: $84 \div 9 = 9$ r3, bring down the 9 to get $39 \div 9 = 4$ r3. The quotient is **94** with remainder 3.
- Choice A is correct.** **(4.NS.1)** We're rounding to the nearest thousand. Look at the hundreds digit in 8,250: it's $2 < 5$, so round **DOWN** to **8,000** ✓. The number line shows 8,250 is closer to 8,000 than to 9,000.
- Choice D is correct.** **(4.PFA.1)** “3 times as many” is a multiplication signal. Jordan has 3 groups of Alex's 7 pencils: $7 \times 3 = 21$ pencils.
- The correct answer is A, C.** **(4.NS.1)** Count the unit fractions: five $\frac{1}{8}$'s equal $\frac{5}{8}$ (choice A). Choice C also correctly describes this as “five unit fractions of eighths.” Choice B reverses numerator and denominator. Choices D and E use wrong denominators.
- Choice D is correct.** **(4.NS.1)** We need a number that pairs with 2 to make 20. Ask yourself: $2 \times ? = 20$. Since $2 \times 10 = 20$, the missing factor is **10**.
- The correct answer is $1\frac{1}{5}$.** **(4.NS.1)** The baker used some almonds from her supply. Subtract the amount used: $3\frac{2}{5} - 2\frac{1}{5} = 1\frac{1}{5}$ pounds of almonds remain.
- The correct answer is $\frac{2}{8}$.** **(4.NS.5)** Multiply (or divide) both the numerator and denominator by the same number. Any of these work: $\frac{2}{8}$, $\frac{3}{12}$, $\frac{5}{20}$, etc. All have the same value as $\frac{1}{4}$!
- Choice D is correct.** **(4.NS.1)** The first three digits (hundred-thousands, ten-thousands, thousands) match. Hundreds: $3 < 4$, so Chart 1 is less ✓
- Choice A is correct.** **(4.MG.2)** Amir has 60 grams of butter but only needs 45 grams. Subtract: $60 - 45 = 15$ grams. He has **15** grams extra.
- Choice C is correct.** **(4.CE.1)** The pie chart shows four sections. Add them all: $90^\circ + 80^\circ + 60^\circ + 50^\circ = \mathbf{280^\circ}$.
- Choice B is correct.** **(4.NS.1)** Start at 0. Hop right by $\frac{2}{5}$, then hop right by $\frac{3}{5}$ more. You land exactly at 1. That's $\frac{2}{5} + \frac{3}{5} = 1$.
- Choice C is correct.** **(4.NS.1)** Add the wholes: $3 + 2 = 5$. Add the fractions: $\frac{2}{5} + \frac{3}{5} = \frac{5}{5} = 1$. Combine: $5 + 1 = \mathbf{6}$ pages.
- Choice A is correct.** **(4.MG.4)** One-sixth of the circle is $\frac{1}{6} \times 360^\circ = \mathbf{60^\circ}$.
- Choice A is correct.** **(4.NS.5)** $\frac{2}{100}$ is tiny (close to 0), while $\frac{99}{100}$ is almost 1. So $\frac{2}{100} < \frac{99}{100}$. The benchmark fractions 0 and 1 show the comparison clearly.



Hi, Brave Explorer!

◇ What a trip! You explored 10 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 10 tests, you learned a lot. You are a stronger math explorer now. ★

Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

Explorer tip: on test day, use the tools you packed. You have the skills. You are ready!

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

Jay Daie

Your Math Trail Guide

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

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- ✓ Homework & Review
- ✓ Test Preparation

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SUCCESS FOR LIFE.**

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Reinforce key Grade 4 math skills and build a solid foundation.



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Develop critical thinking and solve problems with confidence.



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Familiarize with test formats and reduce exam stress.



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Measure improvement and focus on areas that matter.



Achieve Success

Build the skills and confidence to reach higher goals.

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- ✓ Graphing & Data Analysis
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- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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