

# 7

# Virginia

## SOL

## GRADE 4 MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

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



7 Full-Length  
Practice Tests



Standards-  
Aligned



Build Confidence  
and Skills



Mixed Question  
Types

**ANSWER  
KEY**

**INCLUDED**

# 7 Virginia SOL Grade 4 Math Practice Tests

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



Seven 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!

Seven steady rounds on the Old Dominion math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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.



Scan me!  
For more practice  
& answers

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1) Which shows a correct comparison?

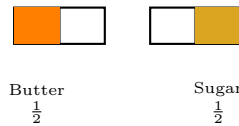
A.  $0.50 > 0.51$

C.  $0.50 = 0.51$

B.  $0.50 < 0.51$

 D. 0.51 is less than 0.50

2) A recipe calls for  $\frac{1}{2}$  cup of butter and  $\frac{1}{2}$  cup of sugar. How much butter and sugar combined?



A.  $\frac{1}{4}$  cup

C.  $\frac{2}{4}$  cup

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

D.  $\frac{1}{2}$  cup

3) In the number 6,663, the value of the digit 6 in the hundreds place is how many times the value of the digit 6 in the tens place?

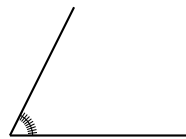
A. 1

C. 100

B. 1,000

D. 10

4)



This angle is marked from  $0^\circ$  to  $63^\circ$ . What is the measure?

A.  $63^\circ$

C.  $62^\circ$

B.  $64^\circ$

D.  $126^\circ$

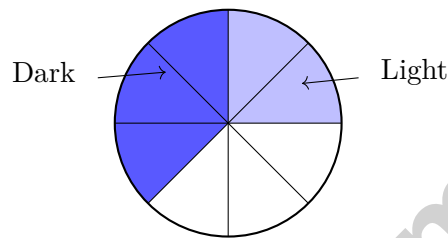


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5) A factory packs 144 toys into crates. Each crate holds 12 toys. How many crates are full? If workers find 9 more toys to pack, how many crates total are needed?

- A. 12 full crates, 12 total needed       C. 11 full crates, 12 total needed  
 B. 144 crates, 13 total                       D. 12 full crates, 13 total needed

6) This pie model shows  $\frac{5}{8}$  decomposed into two shaded regions:



Which equation shows this decomposition?

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

7) Maya has 2 hours 30 minutes to complete a project. She works for 1 hour 45 minutes. How much time does she have left?

- A. 45 minutes                                       C. 1 hour  
 B. 75 minutes                                       D. 1 hour 15 minutes

8) What is  $72 \div 8$ ?



9) What is  $3\frac{3}{4} - 1\frac{2}{4} - \frac{3}{4}$ ?

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

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

10) Add:  $12,345 + 23,456 = ?$

- A. 35,701
- B. 36,801

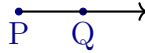
- C. 35,711
- D. 35,801

11) Which diagram shows Ray  $PQ$ ?

A.



B.



C.



D.



- A. Diagram A
- B. Diagram B

- C. Diagram C
- D. Diagram D

12) Noah bought a chocolate bar divided into 10 equal pieces. He ate 7 pieces. Which shows how much he ate as a sum of unit fractions?

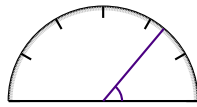
- A.  $\frac{7}{10}$
- B.  $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

- C.  $\frac{1}{7} + \frac{1}{7} + \frac{1}{7}$
- D.  $\frac{7}{7}$



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1)



What is the measure of the angle shown?

- A. 45 degrees                       C. 60 degrees  
 B. 55 degrees                       D. 50 degrees

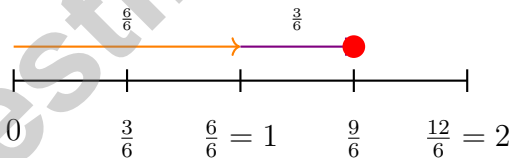
2) What is  $19 \times 22$ ?

- A. 418                                   C. 392  
 B. 380                                   D. 456

3) Starting at 12, the minute hand moves to 3. What angle has it swept?

- A.  $30^\circ$                                    C.  $90^\circ$   
 B.  $60^\circ$                                    D.  $120^\circ$

4) Show  $\frac{9}{6}$  decomposed on a number line:



Which shows the jumps in order?

- A.  $\frac{6}{6} + \frac{3}{6} = \frac{9}{6}$                        C.  $\frac{3}{6} + \frac{5}{6} = \frac{8}{6}$   
 B.  $\frac{1}{3} + \frac{4}{3} = \frac{5}{3}$                        D.  $1 + \frac{1}{3} = \frac{4}{3}$

5) A class project uses  $\frac{7}{8}$  of a sheet of poster board. A second project uses  $\frac{3}{8}$  of a sheet. How much poster board is used for both projects?

A.  $\frac{10}{8}$

B.  $\frac{4}{8}$

C.  $\frac{4}{16}$

D.  $\frac{10}{16}$

6) A growing shape pattern shows: Figure 1 has 2 squares, Figure 2 has 5 squares, Figure 3 has 8 squares. Following the pattern, how many squares are in Figure 6?

7) Kai has 9 toy trucks. His brother has 2 times as many. How many trucks does his brother have?

A. 11

B. 9

C. 7

D. 18

8) Find  $5 \times \frac{1}{8}$ .

9) Which block letter diagram has exactly one line of symmetry?

 A. **F** B. **L** C. **I** D. **Z**

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1) Round 41,449 to the nearest hundred.

A. 42,000

C. 41,500

B. 41,450

D. 41,400

2) Find  $\frac{5}{6} + \frac{1}{6}$ .

3) Which choice shows the correct long division answer for  $1,953 \div 3$ ?

A. 651

C. 641

B. 631

D. 661

4) Look at this number: 56,789. What is the value of the hundreds digit?

A. 7

C. 700

B. 70

D. 7,000

5) Two angles of measures  $15^\circ$  and  $75^\circ$  are combined. What is the total angle?

A.  $60^\circ$

C.  $90^\circ$

B.  $75^\circ$

D.  $100^\circ$

6) What is  $5\frac{3}{10} - 2\frac{7}{10}$ ?

A.  $2\frac{4}{10}$

C.  $2\frac{6}{10}$

B.  $2\frac{5}{10}$

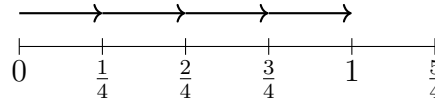
D.  $3\frac{2}{10}$



7) An angle measures 145 degrees. How many one-degree angles make up this angle?

- A. 72.5 one-degree angles       C. 290 one-degree angles  
 B. 145 one-degree angles       D. 14.5 one-degree angles

8) Use the number line to find  $4 \times \frac{1}{4}$ .



- A.  $\frac{1}{4}$        C.  $\frac{2}{4}$   
 B.  $\frac{4}{4}$  or 1       D.  $\frac{4}{16}$
- 9) When a student computed  $3 \times \frac{2}{5}$ , they wrote  $\frac{5}{5}$ . What is the student's likely mistake?
- A. Added  $3 + 2$  instead of multiplying  $3 \times 2$   
 B. Changed the denominator from 5 to 10  
 C. Correctly simplified the product  
 D. Counted the units incorrectly



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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.CE.3) The tenths place is the same (5 tenths). Compare the hundredths:  $0 < 1$ , so  $0.50 < 0.51$ .
- Choice B is correct.** (4.NS.1) The recipe calls for  $\frac{1}{2}$  cup of butter plus  $\frac{1}{2}$  cup of sugar. Together:  $1 + 1 = 2$  halves, which equals 1 whole cup.
- Choice D is correct.** (4.NS.1) The 6 in the hundreds place is worth 600, and the 6 in the tens place is worth 60. Since  $600 \div 60 = 10$ , the hundreds place is 10 times greater. ✓
- Choice A is correct.** (4.MG.4) The angle spans from  $0^\circ$  to the  $63^\circ$  mark, measuring  $63^\circ$ .
- Choice D is correct.** (4.CE.1) Two parts! First:  $144 \div 12 = 12$  full crates. Then the 9 extra toys won't fill a crate but still need one—so we round up:  $12 + 1 = 13$  crates total.
- Choice A is correct.** (4.NS.1) The pie has light blue section ( $\frac{2}{8}$ ) and dark blue section ( $\frac{3}{8}$ ). Total:  $2 + 3 = 5$ , so  $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$ . ✓
- Choice A is correct.** (4.MG.2) Convert to minutes: 2 hours 30 minutes = 150 minutes. She works 1 hour 45 minutes = 105 minutes. Subtract:  $150 - 105 = 45$  minutes. She has 45 minutes left.
- The correct answer is 9.** (4.NS.1) Think: "8 times what equals 72?" Since  $8 \times 9 = 72$ , the answer is 9. (Knowing this also tells us that 8 and 9 are factors of 72.)
- Choice B is correct.** (4.NS.1) Start with whole parts:  $3 - 1 = 2$ . For fractions:  $\frac{3}{4} - \frac{2}{4} - \frac{3}{4} = \frac{3}{4} - \frac{5}{4}$ . Since the fractions are being subtracted from a whole (this becomes 2 wholes minus fractions), regroup:  $2\frac{3}{4} = 1\frac{7}{4}$ , then  $1\frac{7}{4} - \frac{5}{4} = 1\frac{2}{4}$ .
- Choice D is correct.** (4.NS.1) Add from ones:  $5 + 6 = 11$  (write 1, carry 1),  $4 + 5 + 1 = 10$  (write 0, carry 1),  $3 + 4 + 1 = 8$ ,  $2 + 3 = 5$ ,  $1 + 2 = 3$ . The sum is **35,801**.
- Choice B is correct.** (4.MG.4) Ray  $PQ$  begins at  $P$  — the first letter — and shoots forever through  $Q$ . The arrow starting at  $P$  in Diagram B shows this perfectly.
- Choice B is correct.** (4.NS.1) Noah ate 7 pieces out of 10 equal pieces, so the fraction is  $\frac{7}{10}$ . As unit fractions:  $\frac{7}{10} = \underbrace{\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}}_{7 \text{ copies}}$ .
- Choice C is correct.** (4.MG.4) An angle can be named in reverse order, but the vertex must stay in the middle. Since  $M$  is the vertex,  $\angle NMO$  and  $\angle OMN$  name the same angle.
- Choice C is correct.** (4.MG.4) The letter  $I$  is a straight rectangle with balanced top-to-bottom and left-to-right symmetry. Both a vertical fold and a horizontal fold create matching halves. The answer is letter **I**.
- The correct answer is B, C.** (4.MG.4) For statements about rectangles: B is correct because opposite sides in a rectangle are always equal in length. C is correct because all four angles in a rectangle measure 90 degrees. Statement A is false (only opposite sides must be equal, not all four). Statement D is false (rectangles have two pairs of parallel sides, not one). Statement E is false (rectangles have parallel sides). The answer is B and C.
- Choice D is correct.** (4.NS.1) Work backwards: if "add 3" gives 10, then the first term is  $10 - 3 = 7$ .
- Choice B is correct.** (4.CE.3) On the line plot, count the X marks stacked above  $\frac{1}{2}$  inch. There are exactly **2** X marks.
- Choice A is correct.** (4.MG.4) The angle spans between two rays in the lower portion of the circle, measuring  $30^\circ$ .
- Choice D is correct.** (4.NS.1) Divide:  $15 \div 7 = 2$  r1, bring down the 1 to get  $11 \div 7 = 1$  r4, bring down the 2 to get  $42 \div 7 = 6$ . Each charity receives **\\$216**.
- Choice B is correct.** (4.CE.3) 0.5 represents half. The number line goes from 0 to 1, so 0.5 sits exactly in the middle at mark B.
- Choice A is correct.** (4.NS.5) Both fractions have numerator 2. When numerators match, smaller denominators give bigger pieces. Since  $3 < 5$ ,  $\frac{2}{3} > \frac{2}{5}$ .
- Choice C is correct.** (4.MG.2) Since 1 meter = 1,000 millimeters, multiply:  $3 \times 1,000 = 3,000$  mm. The answer is **3,000** mm.
- Choice D is correct.** (4.NS.5) To get a denominator of 12 from 3, multiply by 4. Multiply both top and bottom by 4:  $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$ .



**From Your Math Family**

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**Hi, Math Family Member,**

◇ Welcome to a special note from your math family. You finished 7 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Family

# 7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Confidence Building
- ✓ Skill Reinforcement

★ CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ And More!



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7 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included