

# 8 Virginia SOL

## GRADE 4

### PRACTICE TESTS



1

$$2 \times 3 = 6$$

3

5

$$2 \times 3 = 6$$

2

4

Standards-Aligned Review with  
Mixed Practice and Answer Key

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Virginia SOL Grade 4 Math Practice Tests

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



Eight 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!

Eight steady rounds on the Old Dominion math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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.

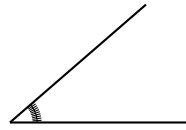


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& answers

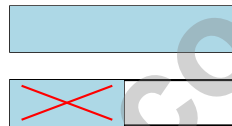
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1)



This angle has tick marks from 0 to 40 degrees. What is the measure of the angle?

 A.  $40^\circ$ 
 C.  $39^\circ$ 
 B.  $41^\circ$ 
 D.  $80^\circ$ 
2) What is  $\frac{3}{2} - \frac{1}{2}$ ?Start with  $\frac{3}{2}$ Take away  $\frac{1}{2}$ ; ? remains
 A.  $\frac{2}{4}$ 
 C.  $\frac{1}{2}$ 
 B.  $\frac{2}{2}$  or 1

 D.  $\frac{4}{2}$ 

3) Liam collected 40 pennies. Liam collected 5 times as many pennies as his friend. How many pennies did his friend collect?

 A. 45

 C. 35

 B. 20

 D. 8

4) Kai baked  $4\frac{2}{4}$  batches of cookies on Saturday and  $2\frac{1}{4}$  batches on Sunday. What is the total?

 A.  $5\frac{3}{4}$  batches

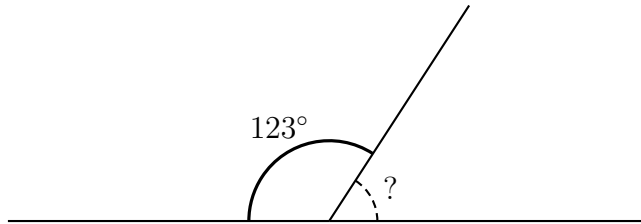
 C.  $6\frac{2}{4}$  batches

 B.  $6\frac{1}{4}$  batches

 D.  $6\frac{3}{4}$  batches


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- 5) A straight line is marked at a point. On one side of the point, an angle measures  $123^\circ$ . What is the measure of the angle on the other side of the point?



- A.  $123^\circ$                        C.  $180^\circ$   
 B.  $57^\circ$                          D.  $90^\circ$
- 6) A child spins a bottle. It rotates  $\frac{1}{9}$  of a full turn. How many degrees is this?
- A.  $30^\circ$                          C.  $40^\circ$   
 B.  $35^\circ$                          D.  $45^\circ$
- 7) Diego needs to divide 1,625 into 5 equal groups. What is the result?
- A. 315                           C. 335  
 B. 305                           D. 325
- 8) An input-output pattern is shown:

Input	6	7	8	9
Output	12	14	16	?

What is the output when the input is 9?

- A. 17                               C. 19  
 B. 20                               D. 18





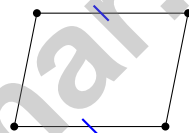
1) Which pair shows factors of 24?

- A. 3 and 8
- B. 4 and 5
- C. 5 and 5
- D. 2 and 10

2) Which multiplication problem has the product 156?

- A.  $12 \times 12$
- B.  $13 \times 13$
- C.  $14 \times 12$
- D.  $13 \times 12$

3) Look at this quadrilateral with marked sides. How many sides are equal?



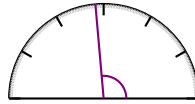
Marked sides

- A. One side
  - B. Two sides
  - C. Three sides
  - D. Four sides
- 4) Which fraction is a multiple of  $\frac{1}{5}$ ?

- A.  $\frac{2}{5}$
- B.  $\frac{1}{10}$
- C.  $\frac{3}{4}$
- D.  $\frac{2}{7}$



5)



Measure the angle shown in degrees.

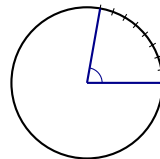
6) Jordan read 15 pages in his book. Sophia read 3 times as many pages as Jordan. How many pages did Sophia read?

 A. 18 C. 60 B. 30 D. 45

7) Ethan has \$35 and spends \$12 on a book. How much money does he have left?

 A. \$12 C. \$47 B. \$23 D. \$35

8)



Look at the angle shown. It is marked from  $0^\circ$  to  $80^\circ$ . Write the measure of the angle.



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1) How many factor pairs does 28 have?

2) Sam has 24 stickers. He sorts them into 4 equal groups and keeps one group. Then he gets 8 more stickers. How many stickers does he have now?

A. 20

C. 12

B. 16

D. 14

3) A race is 8,800 yards long. How many miles is this?

A. 2

C. 4

B. 3

D. 5

4) Which statement is true?

A.  $\frac{40}{100} < \frac{4}{10}$

C.  $\frac{40}{100} > \frac{4}{10}$

B.  $\frac{40}{100} = \frac{4}{10}$

D.  $\frac{40}{100} = \frac{40}{10}$

5)



Ava measures an angle and gets a reading very close to 90 degrees. Is this angle acute, right, or obtuse?

A. Right

C. Obtuse

B. Acute

D. Straight



6) Complete the equation:  $7 \times \frac{1}{\underline{\quad}} = \frac{7}{9}$

A. 7

C. 9

B. 2

D. 16

7) Which type of triangle has exactly one right angle and two acute angles?

A. Acute triangle

C. Right triangle

B. Obtuse triangle

D. Equilateral triangle

8) A baker needs  $\frac{7}{12}$  cup of sugar and has  $\frac{3}{12}$ . How much more is needed?

9) A full turn around a point equals 360 degrees. How many one-degree angles make a full turn?

A. 180 one-degree angles

C. 360 one-degree angles

B. 90 one-degree angles

D. 720 one-degree angles

10)

\$2K	\$4K	\$3K	\$2K	\$1K
Monday	Tuesday	Wednesday	Thursday	Friday

The chart shows a store's rounded daily sales, in thousands of dollars. How much more did they sell Monday through Wednesday than Thursday and Friday combined?

A. \$6,000

C. \$10,000

B. \$8,000

D. \$7,000



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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 A is correct.** **(4.MG.4)** The angle extends from  $0^\circ$  to  $40^\circ$ , giving us  $40^\circ$ .
- Choice B is correct.** **(4.NS.1)** Start with  $\frac{3}{2}$  halves. Take away  $\frac{1}{2}$ :  $3 - 1 = 2$  halves, which equals **1** whole.
- Choice D is correct.** **(4.MG.2)** Liam's 40 pennies are 5 times the friend's amount. To find the friend's amount, divide:  $40 \div 5 = 8$  pennies.
- Choice D is correct.** **(4.NS.1)** Add the wholes:  $4 + 2 = 6$ . Add the fractions:  $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$ . The total is  **$6\frac{3}{4}$**  batches.
- Choice B is correct.** **(4.CE.1)** On a straight line, angles on both sides add to  $180^\circ$ . Subtract to find the other:  $180^\circ - 123^\circ = 57^\circ$ .
- Choice C is correct.** **(4.MG.4)**  $\frac{1}{9} \times 360^\circ = 40^\circ$ .
- Choice D is correct.** **(4.NS.1)** Use long division:  $16 \div 5 = 3$  r1, bring down the 2 to get  $12 \div 5 = 2$  r2, bring down the 5 to get  $25 \div 5 = 5$ . The result is **325**.
- Choice D is correct.** **(4.NS.1)** Multiply each input by 2:  $6 \times 2 = 12$ ,  $8 \times 2 = 16$ , so  $9 \times 2 = 18$ .
- Choice C is correct.** **(4.MG.3)** Start with  $P = 2\ell + 2w = 24$ . Substitute  $\ell = 7$ :  $2(7) + 2w = 24$ . Simplify:  $14 + 2w = 24$ , so  $2w = 10$ , thus  $w = 5$  m.
- Choice C is correct.** **(4.MG.4)** The letter *H* is balanced in two directions! A vertical line down the middle splits it into matching left and right halves, and a horizontal line across the middle splits it into matching top and bottom halves. So *H* has **2** lines of symmetry.
- Choice D is correct.** **(4.NS.1)** Counting from the right: ones, tens, hundreds, thousands. The thousands digit is **2** ✓
- Choice A is correct.** **(4.CE.3)** Compare the tenths place:  $7 > 5$ , so  $0.75 > 0.57$ . Pitcher A holds more lemonade.
- Choice C is correct.** **(4.MG.4)** A trapezoid is defined by having exactly one pair of parallel sides. This distinguishes it from parallelograms, which have two pairs of parallel sides. The answer is **C**.
- Choice B is correct.** **(4.MG.2)** Convert 3 liters to mL:  $3 \times 1,000 = 3,000$  mL. Since  $2,500 \text{ mL} < 3,000 \text{ mL}$ , the answer is **2,500** milliliters is smaller.
- The correct answer is A, D.** **(4.CE.3)** Option A: Convert  $\frac{3}{10} = \frac{30}{100}$ , so  $\frac{30}{100} + \frac{40}{100} = \frac{70}{100}$  (true). Option D: Divide by 10 to get  $\frac{20}{100} = \frac{2}{10}$  (true). The others are false: B is reversed (7 tenths  $<$  65 hundredths), C is wrong ( $\frac{5}{10} = \frac{50}{100}$ , not  $\frac{5}{100}$ ), and E is very wrong ( $\frac{1}{10} \neq 1$ ).
- Choice D is correct.** **(4.NS.1)** Think:  $3 \times 24 = 3 \times (20 + 4) = 60 + 12 = 72$  chairs.
- The correct answer is  $77^\circ$ .** **(4.MG.4)** The label gives the angle measure:  **$77^\circ$** .
- Choice C is correct.** **(4.CE.3)** Multiples of  $\frac{1}{6}$  count by sixths. That gives us  $\frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}, \frac{6}{6}, \dots$ . But  $\frac{2}{5}$  doesn't fit this pattern, so it's not a multiple.
- Choice A is correct.** **(4.MG.4)** The blue distance markers show that these parallel lines stay exactly the same distance apart all the way down. That's what makes them parallel!
- Choice B is correct.** **(4.NS.1)**  $\frac{2}{2}$  means the whole, which breaks into unit fractions:  $\frac{2}{2} = \frac{1}{2} + \frac{1}{2}$ . So there are **2** unit fractions of  $\frac{1}{2}$ .
- Choice B is correct.** **(4.NS.5)** Compare the shading to the benchmark. Option B shades the same amount as the benchmark ( $\frac{1}{2}$ ):  $\frac{4}{8} = \frac{1}{2}$ . Option A ( $\frac{2}{6}$ ) shades much less.
- Choice A is correct.** **(4.CE.3)** We need to add 5 unit fractions of  $\frac{1}{6}$  each. This means  $5 \times \frac{1}{6} = \frac{5}{6}$ .
- Choice C is correct.** **(4.NS.1)** Option C:  $2 + 5 = 7$ , so  $\frac{2}{10} + \frac{5}{10} = \frac{7}{10}$ , not  $\frac{8}{10}$ . The answer is **C** ✓.
- Choice A is correct.** **(4.NS.1)** Ming's angle at  $100^\circ$  is just past a right angle (which is  $90^\circ$ ). Any angle bigger than  $90^\circ$  but smaller than  $180^\circ$  is obtuse, so this is definitely obtuse. The answer is obtuse angle.
- Choice D is correct.** **(4.NS.1)** From the chart, read the digits left to right: thousands 3, hundreds 5, tens 2, ones 6. This forms **3,526**. ✓
- The correct answer is 19,567.** **(4.NS.1)** The library received more books, so we add.  $15,000 + 4,567 = 19,567$  books.
- Choice B is correct.** **(4.MG.2)** The picture shows three \$5 bills. Multiply:  $3 \times 5 = 15$  dollars. The total is **\$15**.
- The correct answer is  $\frac{3}{5}$ .** **(4.NS.5)** Compare to  $\frac{1}{2}$ : Convert to tenths:  $\frac{3}{5} = \frac{6}{10}$  and  $\frac{1}{2} = \frac{5}{10}$ . Since  $6 > 5$ ,  $\frac{3}{5}$  is greater.



Star Player Pep Talk

---

## Hi, Star Player!

◇ 8 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 8 tests. It's real now! ★

### Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

**Star tip:** on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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 Coach

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ 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.

## TOPICS COVERED

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



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