

# 4

# Virginia SOL



GRADE 4

# MATH

PRACTICE TESTS



5 FULL-LENGTH  
PRACTICE TESTS



STANDARDS-ALIGNED  
REVIEW




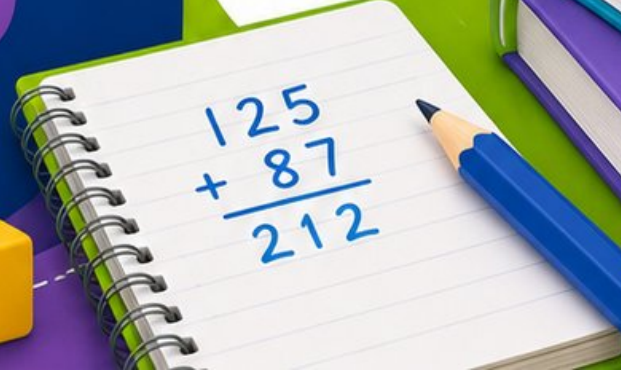
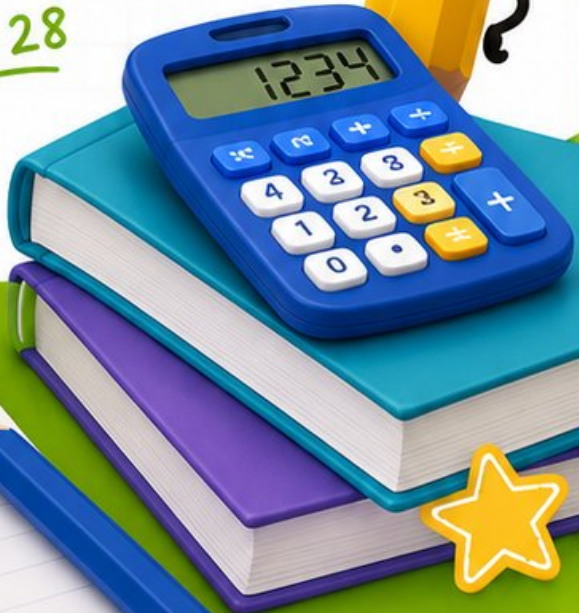
MIXED PRACTICE  
QUESTIONS



ANSWER KEY  
INCLUDED

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

  $4 \times 7 = 28$   
 $36 \div 9 = 4$



# 4 Virginia SOL Grade 4 Math Practice Tests

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



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Virginia Math Explorer!

Four steady rounds on the Old Dominion math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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

# Table of Contents

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1) Mia has 7 cups. Each cup holds 8 marbles. She loses 15 marbles. How many marbles does she have left?

A. 56

C. 71

B. 49

D. 41

2) Write  $\frac{8}{5}$  as a mixed number.

3) The sum  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$  equals which single fraction?

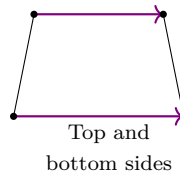
A.  $\frac{6}{36}$

C.  $\frac{1}{6}$

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

D.  $\frac{6}{12}$

4) Look at the quadrilateral. Which pair of sides are parallel?



A. Top and bottom

C. All four sides

B. Left and right

D. No sides are parallel



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- 10) A 3 in the hundreds place is worth 300. A 3 in the tens place is worth 30. What is the difference?

- 11) Noah is training for a race. Each day he jogs  $\frac{1}{2}$  mile. If he trains for 4 days, how far does he jog in total?

- A.  $\frac{1}{8}$  mile  C. 2 miles  
 B.  $\frac{4}{4}$  miles  D.  $\frac{1}{2}$  mile

- 12) In 45,328, how many thousands are there?

- 13) Diego simplified  $\frac{4}{8}$  and wrote  $\frac{2}{4}$ . His teacher said he is correct because the fractions are equivalent. Is the teacher right?

- A. Yes, the teacher is right;  $\frac{2}{4}$  is in simplest form  C. Yes, and both simplify further to  $\frac{1}{2}$   
 B. No, the teacher is wrong;  $\frac{4}{8} \neq \frac{2}{4}$   D. No, Diego should have written  $\frac{1}{4}$



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1) Emma has 6 books. Her sister has 3 times as many. How many books does her sister have?

A. 9

C. 6

B. 3

D. 18

2) Mia is comparing two prices. Socks cost \$0.80 and a pencil costs \$0.08. Which item costs more?

A. The socks (\$0.80)

C. Both cost the same

B. The pencil (\$0.08)

D. The pencil costs 10 times more

3) What is  $\frac{4}{10} + \frac{25}{100} + \frac{10}{100}$ ?

4) Ava buys 3 boxes of markers. Each box has 12 markers. She also buys 6 loose markers. How many markers does she have in total?

A. 30

C. 18

B. 36

D. 42

5) A container holds 2 kilograms of rice. How much rice is in 7 identical containers?

A. 5 kg

C. 14 kg

B. 9 kg

D. 12 kg



6) A turn of  $120^\circ$  is what fraction of a complete rotation?

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

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

C.  $\frac{2}{5}$

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

7) If an angle is NOT acute and is NOT obtuse, what could it be?

 A. Only right B. Only straight C. Right or straight D. It must be acute

8) What is  $6 \times \frac{2}{3}$ ?

A.  $\frac{2}{18}$

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

C. 4

D.  $\frac{6}{5}$

9) Which product equals  $\frac{8}{12}$ ?

A.  $2 \times \frac{1}{12}$

B.  $4 \times \frac{1}{12}$

C.  $8 \times \frac{1}{12}$

D.  $12 \times \frac{1}{8}$

10) What is 14,285 rounded to the nearest ten?

 A. 14,280 B. 14,200 C. 14,300 D. 14,290

11) Write 0.7 in hundredths.



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1) Find  $6\frac{5}{8} - 3\frac{7}{8}$ .

2) Which number is NOT divisible by 2?

A. 24

C. 49

B. 36

D. 50

3) Sam's teacher cut a pie into 4 equal pieces. Sam ate 3 pieces. Which expression shows what Sam ate?

A.  $3 \times \frac{1}{4}$

C.  $3 + 4$

B.  $4 \times \frac{1}{3}$

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

4) A frog makes three equal jumps to reach  $\frac{9}{10}$ . Each jump is:

A.  $\frac{3}{10}$

C.  $\frac{4}{10}$

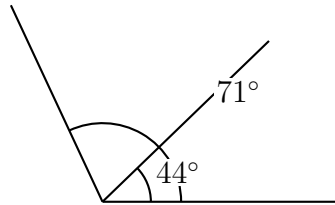
B.  $\frac{2}{10}$

D.  $\frac{1}{10}$

5) In 78,401, what is the value of the digit 8?



- 6) Look at the angle diagram. An angle is divided by a ray into two parts measuring  $44^\circ$  and  $71^\circ$ .



What is the total angle measure?

- A.  $115^\circ$                        C.  $145^\circ$   
 B.  $27^\circ$                          D.  $180^\circ$
- 7) What is  $2 \times \frac{3}{4}$ ?
- A.  $\frac{6}{4}$  or  $1\frac{1}{2}$                        C.  $\frac{3}{2}$   
 B.  $\frac{3}{8}$                                  D.  $\frac{2}{4}$
- 8) A class has 48 students. They are divided into 6 equal teams. How many students are on each team?

- 9) Round 4,607 to the nearest ten.

- A. 4,600                               C. 4,607  
 B. 4,700                               D. 4,610



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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 D is correct.** (4.CE.1) Two steps! Step 1: find the total marbles.  $7 \text{ cups} \times 8 \text{ marbles} = 56$ . Step 2: take away the lost marbles:  $56 - 15 = 41$  marbles left.
- The correct answer is  $1\frac{3}{5}$ .** (4.NS.1) One whole is  $\frac{5}{5}$ , leaving  $8 - 5 = 3$  more fifths. So  $\frac{8}{5} = 1\frac{3}{5}$  ✓.
- Choice B is correct.** (4.NS.1) Six unit fractions of  $\frac{1}{6}$  make  $\frac{6}{6}$ , which is one whole. Count: 6 ones make 6 in the numerator.
- Choice A is correct.** (4.MG.4) The purple arrows indicate which sides are parallel. The arrows on the top and bottom sides show they are parallel to each other. The answer is **A**.
- Choice C is correct.** (4.CE.3) Diego hops in sixths. After 6 hops, he reaches  $6 \times \frac{1}{6} = \frac{6}{6} = 1$ .
- Choice C is correct.** (4.CE.3) Each jump moves us  $\frac{1}{6}$  unit forward. Making 4 jumps means we move  $4 \times \frac{1}{6} = \frac{4}{6}$  units total.
- Choice B is correct.** (4.CE.3) Henry jumps  $\frac{1}{2}$  meter 9 times. Multiply:  $9 \times \frac{1}{2} = \frac{9 \times 1}{2} = \frac{9}{2} = 4\frac{1}{2}$  meters. The answer is  $4\frac{1}{2}$  meters.
- Choice A is correct.** (4.CE.3) Convert  $\frac{7}{10}$  to hundredths:  $\frac{7}{10} = \frac{70}{100}$ . Now add:  $\frac{70}{100} + \frac{10}{100} = \frac{80}{100}$ .
- Choice D is correct.** (4.PFA.1) Step 1: find Owen's soldiers:  $5 \times 7 = 35$ . Step 2: "how many *more*" is a subtraction:  $35 - 5 = 30$ . Owen has **30** more soldiers than Ethan.
- The correct answer is 270.** (4.NS.1) Step 1: Hundreds-place 3 has value 300. Step 2: Tens-place 3 has value 30. Step 3: Subtract:  $300 - 30 = 270$ . ✓
- Choice C is correct.** (4.CE.3) Noah jogs  $\frac{1}{2}$  mile each day for 4 days. We multiply:  $4 \times \frac{1}{2} = \frac{4}{2} = 2$  miles.
- The correct answer is 45.** (4.NS.1) The number 45,328 breaks into 45 thousands and 328 ones, so there are 45 thousands ✓
- Choice C is correct.** (4.NS.5) Diego is right that  $\frac{4}{8} = \frac{2}{4}$ —they're equivalent. But  $\frac{2}{4}$  isn't simplest form yet. Keep simplifying:  $\frac{2}{4} = \frac{1}{2}$ , which is the simplest!
- Choice C is correct.** (4.NS.1) Decompose 328:  $4 \times (300 + 20 + 8) = 1200 + 80 + 32 = 1312$ .
- Choice A is correct.** (4.MG.4) Since 45 degrees is less than 90 degrees, this is an acute angle.
- The correct answer is A, D.** (4.NS.1) A:  $5 + 3 = 8$  twelfths ✓. D:  $6 + 2 = 8$  twelfths ✓. B:  $11 - 2 = 9$  (wrong). C:  $4 + 4 = 8$  sixths, not twelfths (wrong). E:  $9 - 4 = 5$  (wrong).
- Choice A is correct.** (4.NS.1) Add:  $5,234 + 3,456 = 8,690$ . In the hundreds place:  $2 + 4 = 6$ . The hundreds digit is **6**.
- Choice B is correct.** (4.NS.1) The picture shows a rectangle with 3 out of 4 parts shaded. When one shaded part is removed, subtract:  $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$  remains shaded.
- Choice B is correct.** (4.MG.4) A right angle is a special angle that measures exactly  $90^\circ$ . Think of the corner of your notebook — that's a right angle! Acute angles are smaller, obtuse angles are bigger, and straight angles are perfectly flat at  $180^\circ$ .
- Choice D is correct.** (4.NS.1) The word "multiply" tells us to repeat groups. Doubling:  $5 \rightarrow 10 \rightarrow 20 \rightarrow 40$ . The rule is "multiply by 2". ✓
- Choice C is correct.** (4.NS.1) Add the wholes:  $3 + 1 = 4$ . Add the fractions:  $\frac{1}{3} + \frac{2}{3} = \frac{3}{3} = 1$ . Combine:  $4 + 1 = 5$  meters.
- Choice A is correct.** (4.CE.1) To find the missing part, subtract what you know from the whole angle:  $150^\circ - 85^\circ = 65^\circ$ .
- Choice B is correct.** (4.NS.1) Walk through the factor pairs of 48:  $1 \times 48, 2 \times 24, 3 \times 16, 4 \times 12, 6 \times 8$ . Combine both sides: **1, 2, 3, 4, 6, 8, 12, 16, 24, 48** (10 factors). Choice A misses 3 and 16; choice C misses 16; choice D misses 1.
- Choice C is correct.** (4.NS.5) These name the same amount:  $\frac{2}{8} = \frac{1}{4}$  (divide both by 2). Same fraction, different forms.
- Choice C is correct.** (4.MG.2) Ethan's group has 2 rows of 9 pencils—"2 times as many." Multiply:  $2 \times 9 = 18$  colored pencils.
- Choice C is correct.** (4.CE.3) To be between 0.4 and 0.5, a decimal must have tenths = 4. But 0.55 has tenths = 5, so it's not in the range.



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## Author's Note

### From a Friend Who Believes in You

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#### Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 4 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

#### What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

**One more thing:** on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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 Friend

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

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

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### Track Progress

Measure growth across multiple practice tests.



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- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
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