

# 9

# South Carolina

## SC READY

# GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice  
for Strong Math Performance

$$A = l \times w$$

$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



$$2,345 \times 6 = 14,070$$



$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

$$7.2 \div 0.8 = 9$$



$$(12 + 8) \div 4 = 5$$



Build Confidence



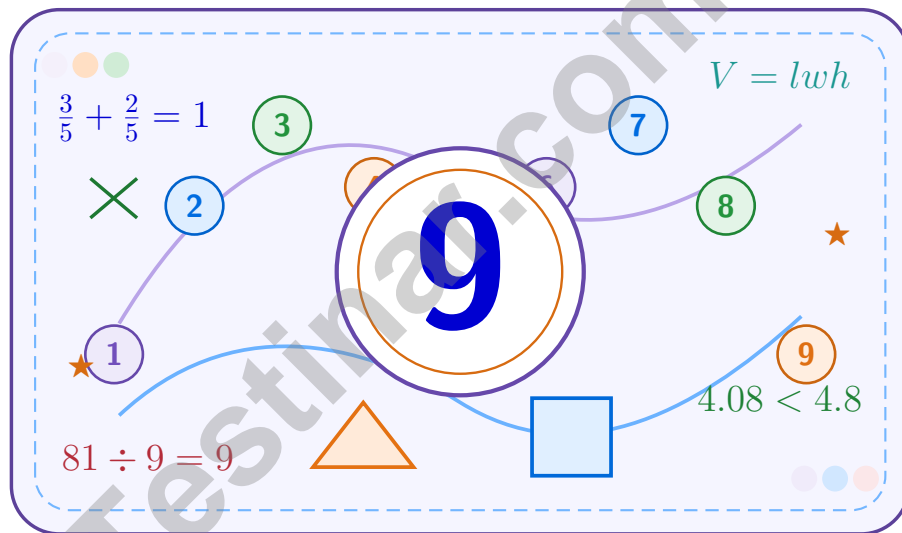
Improve Math Skills



Achieve Success

# 9 South Carolina SC READY Grade 5 Math Practice Tests

*A nine-step confidence climb with clear review, smart strategy, and practice that gets stronger every round*



Nine full tests, focused skill boosters, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

**Jay Daie and Reza Nazari**



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# Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

## To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these nine tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

### Try

Give each problem your best thinking.

### Check

Study mistakes and learn what happened.

### Rise

Bring that lesson into the next round.

**A strong habit for every page:** read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

# How to Use This Book

A simple practice routine that turns nine tests into steady growth

## A Nine-Session Climb Map

Session	Mission Focus
1	Take Test 1; review place value and operation slips.
2	Take Test 2; keep work neat and easy to read.
3	Take Test 3; give extra time to fractions and decimals.
4	Take Test 4; slow down on word problems and units.
5	Take Test 5; compare scores and habits with earlier rounds.
6	Take Test 6; notice which habits are now automatic.
7	Take Test 7; explain open-ended answers clearly.
8	Take Test 8; review topics that still need attention.
9	Take Test 9; finish with calm, careful, confident work.

### Step 1: Warm Up

**Start with the quick review.**  
Spend a few minutes refreshing the ideas before you start a test.

### Step 2: Take the Test

**Take one full practice test.**  
Work in a quiet space and let accuracy matter more than speed.

### Step 3: Study the Pattern

**Check your work honestly.**  
Circle missed questions and notice patterns in the mistakes.

### Step 4: Learn, Then Retry

**Read the explanation and try again.**  
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.



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# Test Overview

## What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the South Carolina SC READY. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

### Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

### Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

**What strong work looks like:** the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



# Table of Contents

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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

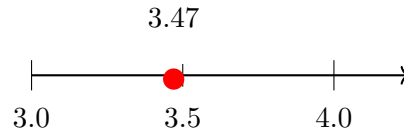
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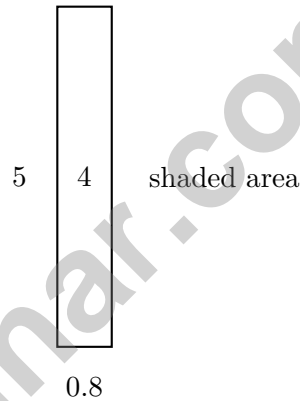




- 5) A number line shows the position of 3.47 between 3 and 4. What is 3.47 rounded to the nearest whole number?



- A. 4.0
- B. 3.5
- C. 3.7
- D. 3
- 6) An area model shows  $0.8 \times 5$ . What is the product?



- A. 4
- B. 4.2
- C. 4.5
- D. 5.8
- 7) Which division equation tells how many  $\frac{1}{5}$  parts are in 1 whole?
- A.  $1 \div \frac{1}{5} = 5$
- B.  $5 \div \frac{1}{5} = 25$
- C.  $\frac{1}{5} \div 5 = \frac{1}{25}$
- D.  $5 + \frac{1}{5} = 5.2$



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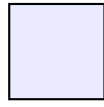
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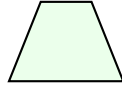
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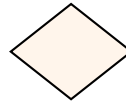
- 1) Look at the shapes below. Which shape has two pairs of parallel sides, all sides the same length, and no right angles?



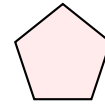
Shape A



Shape B



Shape C



Shape D

- A. Shape A
- B. Shape B
- C. Shape C
- D. Shape D
- 2) Add:  $\frac{9}{10} + 4\frac{1}{10}$
- A.  $4\frac{8}{10}$
- B. 5
- C.  $4\frac{9}{10}$
- D.  $5\frac{1}{10}$
- 3) An artist uses  $\frac{5}{12}$  gallon of paint on a wall. The door uses  $\frac{2}{3}$  as much paint as the wall. How much paint is used on the door? Give the answer in simplest form.
- A.  $\frac{10}{15}$  gallon
- B.  $\frac{5}{18}$  gallon
- C.  $\frac{7}{15}$  gallon
- D.  $\frac{1}{2}$  gallon
- 4) What is the value of  $[(8 + 4) \div 2] \times 3$ ?
- A. 6
- B. 9
- C. 12
- D. 18



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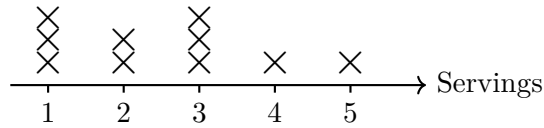
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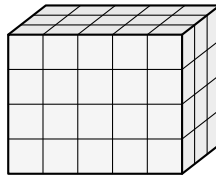


- 1) The line plot shows the number of servings of vegetables eaten per day:



What is the total number of servings eaten by all people?

- A. 25 servings
- B. 26 servings
- C. 27 servings
- D. 28 servings
- 2) Evaluate:  $(18 \div 3) + (2 \times 7)$
- A. 19
- B. 63
- C. 42
- D. 20
- 3) A playground has two age groups with counts. Ages 5–7: 3, 6, 9, 12 children per day. Ages 8–10: 2, 4, 6, 8 children per day. Which (younger, older) pair is for day 2?
- A. (9, 6)
- B. (12, 8)
- C. (3, 2)
- D. (6, 4)
- 4) A rectangular prism has 5 unit cubes along its length, 3 along its width, and 4 along its height. Find the volume.



- A. 30 unit cubes
- B. 45 unit cubes
- C. 60 unit cubes
- D. 12 unit cubes



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- 1) A book shelf space is 18 inches wide, 10 inches deep, and 8 inches tall. What volume can it hold?
- A.  $1200 \text{ in}^3$                        C.  $1600 \text{ in}^3$   
 B.  $1440 \text{ in}^3$                        D.  $1800 \text{ in}^3$
- 2) Estimate:  $10 - 4\frac{11}{12}$ .
- A. 4                                       C. 6  
 B. 5                                       D. 7
- 3) Which is true?
- A.  $9.64 - 3.25 = 6.49$                        C.  $9.64 - 3.25 = 6.39$   
 B.  $9.64 - 3.25 = 7.25$                        D.  $9.64 - 3.25 = 6.29$
- 4) A triangle has all angles less than 90 degrees and two sides of equal length. What two terms describe it?
- A. Acute and isosceles                       C. Right and isosceles  
 B. Acute and scalene                       D. Obtuse and equilateral
- 5) Compare:  $(15 + 8) \times 4$    $15 + 8 \times 4$
- A.  $>$                                        C.  $=$   
 B.  $<$                                        D. Cannot tell
- 6) A hardware store receives a shipment of nails weighing 42 kg. If the nails are packed in bags of 0.6 kg each, how many bags are in the shipment?
- A. 70 bags                                       C. 60 bags  
 B. 65 bags                                       D. 75 bags



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong South Carolina scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice C is correct.** (5.PAFR.1.2) Multiply:  $52 \times 18 = 52 \times (20 - 2) = (52 \times 20) - (52 \times 2) = 1,040 - 104 = 936$  cartridges.
- Choice C is correct.** (5.PAFR.1.2) A product gets smaller when the factor is less than 1. Only  $\frac{9}{10} < 1$ , so  $12 \times \frac{9}{10} < 12$ .
- Choice B is correct.** (5.PAFR.3.2) Start at  $5\frac{3}{8}$  and hop back  $2\frac{1}{8}$  to land at  $3\frac{2}{8}$ , which simplifies to  $3\frac{1}{4}$ .
- Choice D is correct.** (5.NR.1.4) The table shows  $25.4 \div 10 = 2.54$ . Decimal moves 1 place left.
- Choice D is correct.** (5.NR.1.3) 3.47 is between 3 and 4, but closer to 3 because the tenths digit 4 is less than 5. It rounds down to 3.
- Choice A is correct.** (5.NR.1.3)  $0.8 \times 5 = 4$ . The area model shows 0.8 (width) times 5 (height) equals 4 square units.
- Choice A is correct.** (5.PAFR.2.3) A whole divided into 5 equal parts of  $\frac{1}{5}$  each is represented by  $1 \div \frac{1}{5} = 5$ .
- Choice D is correct.** (5.MGSR.1.2) Find each part first: Prism A is  $7 \times 4 \times 6 = 168$  cubic meters, and Prism B is  $6 \times 2 \times 2 = 24$  cubic meters. Because the parts do not overlap, add them:  $168 + 24 = 192$  cubic meters.
- Choice D is correct.** (5.NR.1.3)  $1,134 \div 21 = 54$  bricks per site. Check:  $21 \times 54 = 1,134$ .
- The correct answer is Student B.** (5.NR.1.3) Student B forgot to multiply the whole number by 2. Correct:  $2\frac{1}{4} \times 2 = \frac{9}{4} \times 2 = \frac{9}{2} = 4\frac{1}{2}$ .
- The correct answer is 450.** (5.NR.1.4) Move the decimal point three places right:  $0.45 \rightarrow 450$ .
- Choice D is correct.** (5.NR.1.4)  $20 \times 5$  makes 100, which ends with exactly 2 zeros. The other choices do not end with exactly 2 zeros.
- Choice B is correct.** (5.NR.1.4) The base layer has  $6 \times 7 = 42$  square units. Divide the volume by the base area:  $84 \div 42 = 2$ , so the height is 2 inches.
- Choice A is correct.** (5.MGSR.1.1) An equilateral triangle has all three sides of equal length and all three angles equal to  $60^\circ$ .
- Choice C is correct.** (5.NR.1.4) Multiplying by 10 shifts digits left: 3 to hundreds, 4 to tens, 0 in ones place.
- Choice A is correct.** (5.MGSR.1.2) The original volume is  $15 \times 12 \times 10 = 1,800$  cubic centimeters. Splitting it into two equal non-overlapping parts gives  $1,800 \div 2 = 900$  cubic centimeters for each part.
- Choice C is correct.** (5.DPSR.1.2) Use the values shorter than 1 yard: two  $\frac{1}{4}$ -yard strips, three  $\frac{1}{2}$ -yard strips, and one  $\frac{3}{4}$ -yard strip. The total is  $\frac{2}{4} + \frac{3}{2} + \frac{3}{4} = \frac{11}{4} = 2\frac{3}{4}$  yards.
- Choice B is correct.** (5.MGSR.1.1) Opposite sides parallel and equal makes it a parallelogram. All sides equal makes it a rhombus. No right angles means it is NOT a rectangle or square.
- Choices A, B are correct.** (5.NR.1.1) Line up the decimal points:  $1.25 + 2.50 = 3.75$  and  $0.75 + 3.00 = 3.75$ . C gives 4.00, and D gives 3.25.
- Choice C is correct.** (5.NR.1.1) The denominator increased from 7 to 14 (multiply by 2). Multiply the numerator by 2:  $5 \times 2 = 10$ .
- Choice B is correct.** (5.NR.2.1) Convert to tenths:  $\frac{3}{10} + \frac{1}{5} = \frac{3}{10} + \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$ .
- Choice D is correct.** (5.PAFR.1.1) A quotient is a division result, so start with  $36 \div 4$ . The phrase “increased by 9” means add 9 to that quotient.
- Choice B is correct.** (5.PAFR.1.1) Width is the horizontal distance left to right, determined by the difference in x-coordinates:  $6 - 1 = 5$  units.
- Choice A is correct.** (5.PAFR.1.4) Repeated addition:  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = 5 \times \frac{1}{8} = \frac{5}{8}$  of a lap.
- Choice B is correct.** (5.MGSR.2.1) 1 gallon = 4 quarts = 8 pints. So 2 gallons =  $2 \times 8 = 16$  pints.
- Choice C is correct.** (5.PAFR.3.4) Choose the operation from the story, then keep the unit with the answer. Subtract:  $64.75 - 8.50 = 56.25$  dollars. This confirms the answer.
- The correct answer is  $\frac{1}{4}$ .** (5.PAFR.2.1)  $\frac{2}{3} = \frac{8}{12}$ . Difference:  $\frac{3}{12} = \frac{1}{4}$ .
- Choice A is correct.** (5.PAFR.2.1)  $24.63 - 18.97 = 5.66$ . Requires borrowing from both ones and tens places.
- Choice A is correct.** (5.NR.1.1) Check the rows:  $3 \times 1 - 1 = 2$ ,  $3 \times 2 - 1 = 5$ ,  $3 \times 3 - 1 = 8$ , and  $3 \times 4 - 1 = 11$ .



### A Message From Your Math Partner

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#### Hey there, Problem Solver!

◇ Incredible work! You've journeyed through 9 complete practice tests, and that's no small accomplishment! Each question you tackled strengthened your mathematical thinking. When you began, some problems might have felt overwhelming, but now you've developed the skills to break them down systematically. You've transformed into a confident mathematician who understands that persistence beats perfection every single time! ◇

★ **Here's something mathematicians understand:** mistakes are simply opportunities to learn something new. The greatest problem-solvers in history made countless errors before their breakthroughs. Through these 9 tests, you've practiced that same growth mindset. You've discovered that every challenging problem teaches you something valuable, and that knowledge stays with you forever! ★

#### Your Mathematical Growth Journey

- **Problem-Solving Skills:** EXCEPTIONALLY DEVELOPED! You can analyze complex situations with confidence!
- **Strategic Thinking:** SIGNIFICANTLY STRENGTHENED! You recognize patterns and apply effective strategies!
- **Persistence Level:** REMARKABLY HIGH! You've proven you can work through any challenge!
- **Test Readiness:** COMPLETELY PREPARED! You have all the tools you need to succeed!

**Remember this:** test day is your opportunity to demonstrate everything you've learned! You've completed 9 comprehensive practice tests; that's substantial preparation! You've analyzed problems, applied strategies, and developed mathematical confidence. Now it's time to showcase your abilities! Take a calming breath, trust your preparation, and remember that every skill you've built is ready to support you. You've got this!

If you'd like to share your experience or have questions, please email me at [reza@testinar.com](mailto:reza@testinar.com). I'd love to hear from you!

**Reza Nazari & Jay Daie**

Math Teacher and Your Cheer Squad

# PRACTICE MORE. ACHIEVE MORE.

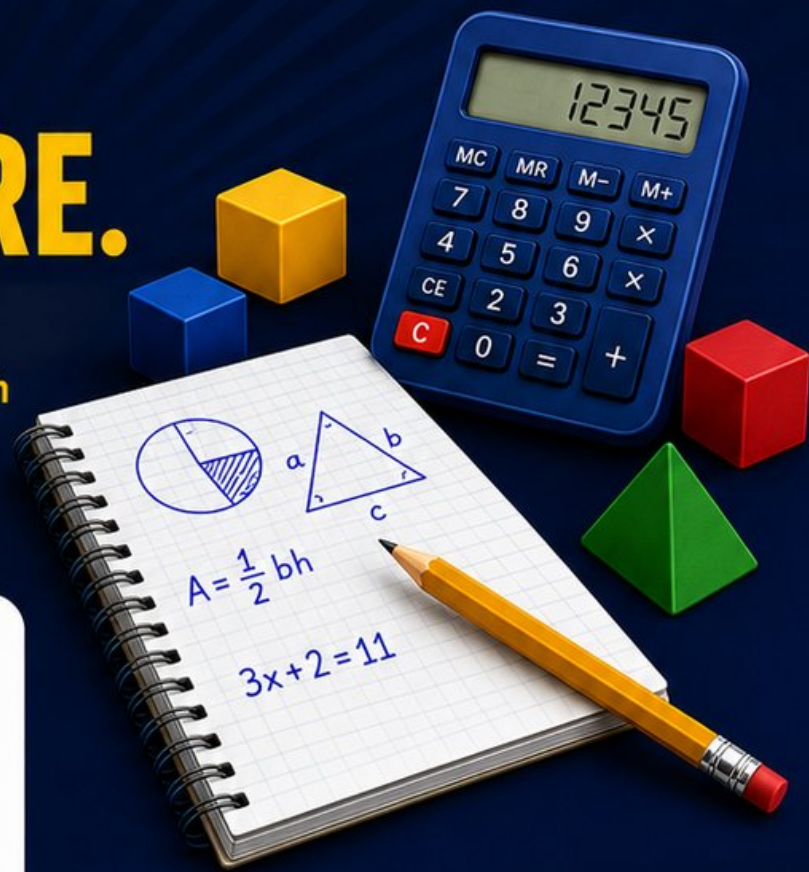
Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

# 9

**FULL-LENGTH  
PRACTICE  
TESTS**

- ✓ Realistic.
- ✓ Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.



## THIS BOOK HELPS YOUR CHILD:



### Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



### Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



### Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



### Track Progress

Identify strengths and target areas with purposeful practice.



### Achieve Success

Better preparation leads to higher scores and bright futures.

## COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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Aligned to Standards



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