

# 7 South Carolina SC READY

7  
PRINTED  
TESTS

+  
2  
ONLINE  
TESTS

## Grade 6 MATH PRACTICE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

Standards-Aligned *Steady Southern*  
Problem Solving for Comprehensive  
Assessment Program



7 Full-Length  
Printed Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



Build Confidence.  
Achieve Success.



You've  
Got  
This!



PREPARE  
PRACTICE  
SUCCEED



PRACTICE  
WITH PURPOSE



STRENGTHEN  
MATH SKILLS



REVIEW, IMPROVE,  
AND SUCCEED

# 7 South Carolina SC READY Grade 6 Math Practice Tests

*Standards-Aligned Palmetto-State Practice Focus for South Carolina College and Career Ready Assessments*

$436 + 289$   $A = 24$

1 2 3 4 5 6 7 8

$7 \times 8$   $\frac{5}{6}$

complete South Carolina practice rounds

Seven complete 40-question Grade 6 practice rounds for SC READY, built for palmetto-state practice focus with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, South Carolina Math Explorer!

Eight focused rounds using palmetto-state practice focus

This book gives you seven full Grade 6 practice tests for SC READY. Each round uses coastal marshes, city streets, and steady classroom routines as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

## Your South Carolina Practice Promise

Read the problem like a route: spot the clues, choose the method, and check the result.

Read

Plan

Check

## How to Use This Book

A seven-session routine for palmetto-state practice focus

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

**South Carolina review rhythm:** Take one round, review with care, and carry one stronger habit into the next test.



## What Is Inside?

Eight SC READY tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 7	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Palmetto-state practice focus means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!  
For more practice  
& answers

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- 1) A car depreciates in value by 15% each year. If it is worth \$20,000 now, what will it be worth after one year?
- A. \$15,000                       C. \$17,000  
 B. \$16,000                       D. \$18,000
- 2) A stem-and-leaf plot has stem = tens digit, leaf = ones digit. If dataset is {32, 35, 37, 42, 45, 51}, what is the median?
- A. 37                                       C. 39.5  
 B. 39                                       D. 42
- 3) A survey shows that the probability a person likes ice cream is 90%. What is the probability that a person does **not** like ice cream?
- A. 0.1                                       C. 0.5  
 B. 0.2                                       D. 0.9
- 4) A submarine is at a depth of  $-250$  meters. It rises 75 meters. At what depth is the submarine now?
- 
- 5) A scientist records bird counts at different altitudes. The stem-and-leaf plot uses a 2-digit stem (like 15, 16, 17). If stem 16 has leaves 0, 3, 7, what are the data values?
- A. 160, 163, 167                       D. Cannot determine without the full plot  
 B. 16, 16, 16  
 C. 1603, 1663, 1673



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10) Solve for  $x$ :  $\frac{x}{9} = 3$

A.  $x = 3$

C.  $x = 27$

B.  $x = 12$

D.  $x = 0.33$

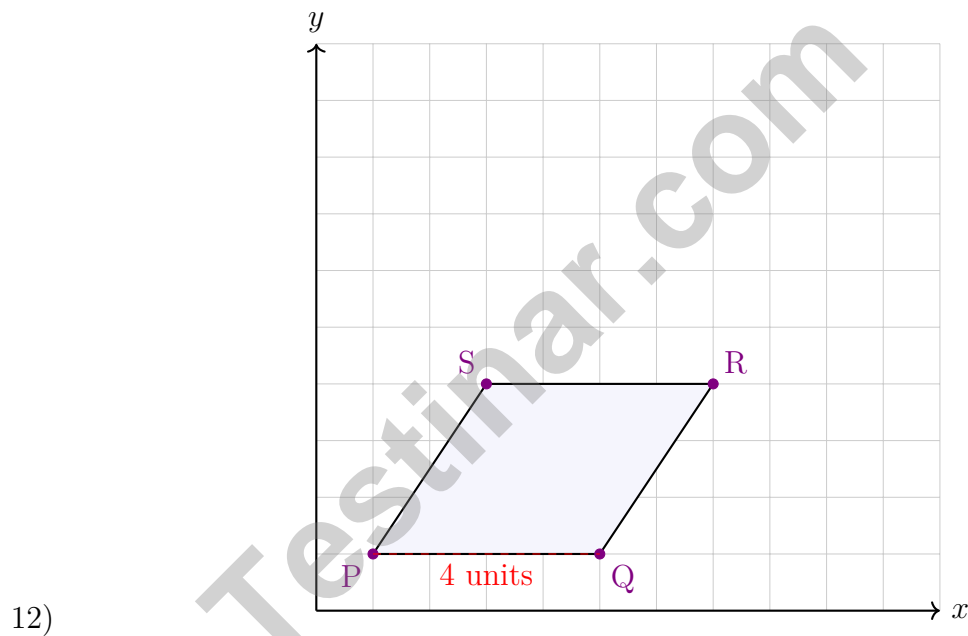
11) A recipe calls for 3 cups of water for every 1 cup of rice. Which equation describes the relationship between cups of rice ( $r$ ) and cups of water ( $w$ )?

A.  $r = 3w$

C.  $r = w + 3$

B.  $w = 3r$

D.  $w = r - 3$



What is the length of side  $PQ$ ?

A. 3 units

C. 5 units

B. 6 units

D. 4 units



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& answers







6)

Pounds	1	2	3
Ounces	16	32	48

A dog weighs 5 pounds. Based on the conversion table, how many ounces does the dog weigh?

- A. 64 ounces                       C. 48 ounces  
 B. 80 ounces                       D. 96 ounces

7) Two students babysit. The table shows their hourly rate and hours worked.

Student	Rate/hour	Hours	Total Earnings
Amy	\$8.00	8	\$64
Ben	\$7.00	12	?

Who earns more?

- A. Amy earns more                       D. Cannot determine without knowing  
 B. Ben earns more                      the task  
 C. They earn the same

**Step-by-Step:**  $7,524 \div 44$

Step 1: 44 goes into 75 once.  $44 \times 1 = 44$

Step 2:  $75 - 44 = 31$ . Bring down 2  $\Rightarrow 312$

Step 3: 44 goes into 312 seven times.  $44 \times 7 = 308$

Step 4:  $312 - 308 = 4$ . Bring down 4  $\Rightarrow 44$

Step 5:  $44 \div 44 = 1$ , remainder 0

---

Quotient: **171**

8)

What is  $7,524 \div 44$ ?

- A. 171                                       C. 169  
 B. 170                                       D. 175

**South Carolina SC READY Practice Test Answer Keys**

**How to use this South Carolina SC READY answer section with a Grade 6 student:**

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to palmetto-state practice focus
3. rework the problem before reading the full explanation, using this reminder:  
Read the problem like a route: spot the clues, choose the method, and check the result.

**A calm South Carolina correction routine turns every missed item into useful practice. Take one round, review with care, and carry one stronger habit into the next test.**



## South Carolina Practice Test Answers and Explanations

Review the seven printed SC READY tests with steady, attentive, and ready for the next route habits.

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (6.PAFR.2.6) Depreciation is 15% of \$20,000 =  $0.15 \times 20,000 = \$3,000$ . Value after one year is  $\$20,000 - \$3,000 = \$17,000$ .
- 2) **Choice C is correct.** (6.DPSR.1.2) With 6 values, the median is the average of the 3rd and 4th values:  $(37 + 42)/2 = 39.5$ .
- 3) **Choice A is correct.** (6.DPSR.2.2) Probability of not liking ice cream =  $1 - 0.9 = 0.1$  or 10%.
- 4) **The correct answer is -175.** (6.PAFR.3.5)  $-250 + 75 = -175$  meters. The submarine is now 175 meters below the surface.
- 5) **Choice A is correct.** (6.DPSR.1.2) With a 2-digit stem (16), each leaf appends to form the value. Stem 16 with leaves 0, 3, 7 gives values 160, 163, 167.
- 6) **Choice A is correct.** (6.PAFR.2.6) The 40% section is largest. 40% of 250 is  $0.40 \times 250 = 100$  people, which is more than either 30% section ( $0.30 \times 250 = 75$  each).
- 7) **Choice D is correct.** (6.PAFR.2.6) The phrase “5 to 8” means 5 goes in the numerator and 8 goes in the denominator. Since 5 and 8 have no common factor greater than 1,  $\frac{5}{8}$  is simplest.
- 8) **The correct answer is \$10,500.** (6.NR.2.3) Add all three months’ profits:  $8,000 + (-2,500) + 5,000 = 10,500$  dollars.
- 9) **The correct answer is 35.** (6.PAFR.2.3) Add 15 to 20:  $20 + 15 = 35$ .
- 10) **Choice C is correct.** (6.PAFR.2.9) Multiply both sides by 9:  $x = 3 \times 9 = 27$ .
- 11) **Choice B is correct.** (6.PAFR.1.1) Water is determined by rice: for every cup of rice, you need 3 cups of water. The equation is  $w = 3r$ .
- 12) **Choice D is correct.** (6.MGSR.3.2) Side  $PQ$  is horizontal from (1, 1) to (5, 1). Length =  $5 - 1 = 4$  units.
- 13) **Choice A is correct.** (6.MGSR.3.2) Reflection over the  $x$ -axis negates the  $y$ -coordinate only:  $(-3, -1) \rightarrow (-3, 1)$ .
- 14) **Choice C is correct.** (6.MGSR.1.3) The area of a circle is  $\pi r^2$ . Choice B is circumference; choices A and D are incorrect formulas.
- 15) **Choice D is correct.** (6.PAFR.2.6) Adding a value of 45 (larger than the current max of 40) directly changes the maximum from 40 to 45. The other quartiles and median are determined by position and would not change with one additional data point.
- 16) **The correct answer is 12.** (6.PAFR.2.1) The constant term is the term without a variable.
- 17) **Choice A is correct.** (6.PAFR.2.3) Substitute  $m = 2$ :  $5(2) - 7 = 10 - 7 = 3$ .
- 18) **The correct answer is A (distance:  $|4 - 0| = 4$ ) and B (distance:  $|7 - 3| = 4$ ).** (6.MGSR.3.2) A has horizontal distance  $|4 - 0| = 4$ , and B has vertical distance  $|7 - 3| = 4$ . Choices C, D, and E have distances 3, 5, and 5 units.
- 19) **Choice C is correct.** (6.PAFR.3.1) “No more than” means the weight limit is at most 5,000 pounds:  $w \leq 5,000$ .
- 20) **Choice C is correct.** (6.PAFR.3.1) “At most 30” means “less than or equal to 30,” so the inequality is  $d \leq 30$  (includes day 30).
- 21) **Choice C is correct.** (6.MGSR.1.5)  $V = 6 \times 5 \times 0.8 = 30 \times 0.8 = 24 \text{ cm}^3$ .
- 22) **Choice C is correct.** (6.MGSR.1.4) Width:  $9 - 2 = 7$  units. Height:  $8 - 3 = 5$  units. Area =  $7 \times 5 = 35$  square units.
- 23) **Choice B is correct.** (6.DPSR.1.2) The frequency of 15 messages is 8, and the frequency of 20 messages is 4. Since  $8 = 2 \times 4$ , 15 has double the frequency of 20.
- 24) **Choice D is correct.** (6.PAFR.2.6) From the graph, at 3 hours the distance is 2 miles. The unit rate is  $2 \div 3 = \frac{2}{3}$  miles per hour.
- 25) **Choice C is correct.** (6.PAFR.2.5)  $78 \div 3 = 26$  miles per gallon.
- 26) **Choice D is correct.** (6.PAFR.2.8) Unit rate:  $45 \div 3 = 15$  dollars per hour. Verify:  $90 \div 6 = 15$  and  $135 \div 9 = 15$ .



Scan me!  
For more practice  
& answers

Trail Guide's Final Note

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## Hi, Brave Trail-Walker!

◇ You walked all 7 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

### Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

**Guide's tip:** on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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 Trail Guide

# MASTER TODAY. SUCCEED TOMORROW.

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 7 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

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



## PERFECT FOR:

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

★ PRACTICE TODAY.  
SUCCEED TOMORROW.

## 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.



### Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.



### Test Confidence

Become familiar with test formats and improve accuracy and speed.



### Achieve Success

Build confidence and perform your best on test day.

## TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



### 2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



7 FULL-LENGTH  
PRINTED TESTS



STANDARDS-  
ALIGNED PRACTICE



DETAILED ANSWER  
KEYS & EXPLANATIONS