

# South Carolina

# SC READY

## GRADE 6

# MATH

# PRACTICE TESTS

Standards Aligned Problem Solving  
For Comprehensive Assessment Programs



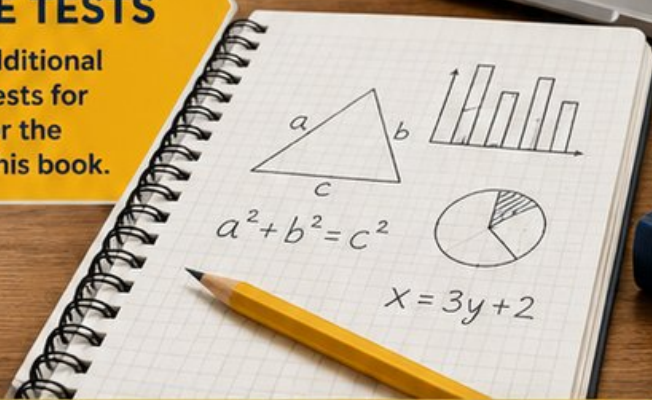
### 5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



### + 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



# 5 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

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

**5**

complete South Carolina practice rounds

Five 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 five 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 five-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	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) The table below shows the number of books donated each week to a library.

Weeks	1	2	3	4
Total Books	25	50	75	100

How many books are donated per week?

- A. 20 books per week                       C. 30 books per week  
 B. 35 books per week                       D. 25 books per week
- 2) A stem-and-leaf plot shows test scores: Stem 6: Leaf 5, 7, 9 Stem 7: Leaf 1, 2, 2, 4, 4, 8 Stem 8: Leaf 0, 3, 6, 9 Stem 9: Leaf 2, 5

What is the median test score?

- A. 72     C. 78  
 B. 80     D. 74
- 3) Which of the following ratios is in simplest form?
- A. 8 : 12     C. 10 : 15  
 B. 6 : 9     D. 5 : 7

- 4) Three phone plans offer different rates: Plan A: 500 minutes for \$35, Plan B: 800 minutes for \$50, Plan C: 1000 minutes for \$60. Which plan has the lowest cost per minute?

Plan	Minutes	Cost (\$)	Cost per Min
A	500	35	\$0.07
B	800	50	\$0.0625
C	1000	60	\$0.06

- A. Plan A (\$0.07 per min)                       C. Plan C (\$0.06 per min)  
 B. Plan B (\$0.0625 per min)                       D. Plans B and C are tied



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1) A bakery sells cookies for  $c$  cents each. A customer buys 6 cookies. Which expression shows the total cost in cents?

A.  $c + 6$

B.  $6c$

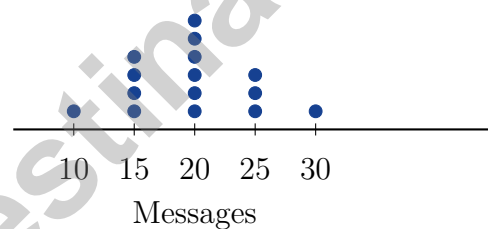
C.  $c - 6$

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

2) Which question is NOT statistical?

 A. What was the temperature each day last week? B. How many hours do sixth graders sleep each night? C. What is the favorite sport of students in this school? D. What is the boiling point of water?

3) A dot plot shows the number of text messages sent daily by people in a group chat. The frequencies are: 10 messages: 1; 15 messages: 4; 20 messages: 6; 25 messages: 3; 30 messages: 1. What is the median number of messages?

 A. 15 messages B. 17.5 messages C. 20 messages D. 22.5 messages

4) A dot plot shows:  $\{5, 8, 12, 15, 18, 22, 28\}$ . Identify the shape.

- A. Symmetric  C. Skewed right  
 B. Skewed left  D. Bimodal

5) Which decimal is equivalent to  $-\frac{7}{10}$ ? Write your answer as a decimal.

6) A bank account started with a balance of \$150. After a withdrawal of \$75 and another withdrawal of \$40, what is the final balance?

7) A bag contains 6 white socks and 4 black socks. If one sock is drawn randomly, what is the probability of drawing a black sock expressed as a decimal?

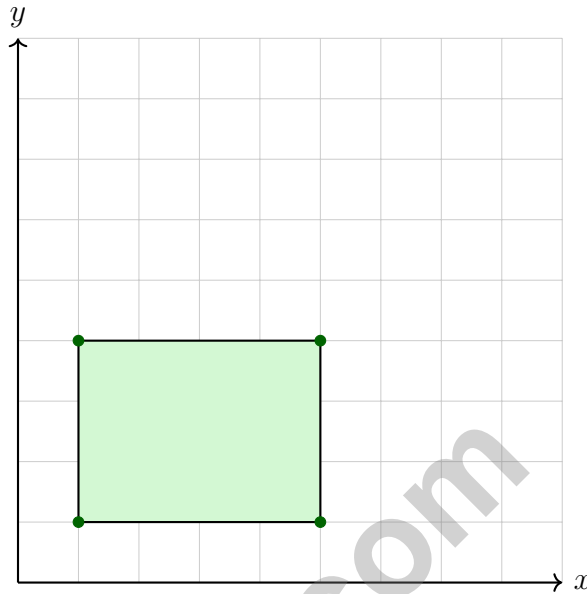
- A. 0.4  C. 0.25  
 B. 0.6  D. 0.75

8) Using the same stem-and-leaf plot from Question 2, what is the range of heights?

- A. 35 cm  C. 25 cm  
 B. 30 cm  D. 40 cm



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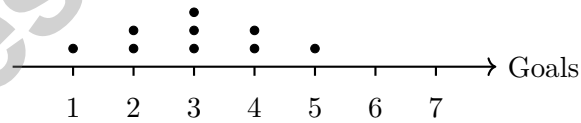


1)

What is the perimeter of the rectangle shown above?

- A. 9 units
- B. 12 units
- C. 14 units
- D. 16 units

2) A dot plot shows the number of goals scored by 9 players:



What is the median number of goals?

- A. 2
- B. 3
- C. 4
- D. 5



Scan me!  
For more practice  
& answers

3) A scientist measures the pH of water samples: 6.8, 7.0, 7.2, 6.9, 7.1, 7.3, 7.0. When ordered: 6.8, 6.9, 7.0, 7.0, 7.1, 7.2, 7.3. The mean is 7.04. What is the MAD?

A. 0.11

C. 0.5

B. 7.04

D. 0.15

4) Solve for  $x$ :  $2x = 14$ .

5) A frequency table is created from survey data on movie preferences. The table shows: Action: 12; Comedy: 18; Drama: 9; Horror: 6. If this data is represented in a bar graph, which category has the highest bar?

Genre	Frequency
Action	12
Comedy	18
Drama	9
Horror	6

A. Action

C. Drama

B. Comedy

D. Horror

6) Two classes compare their test results using box plots. Class 1: IQR = 10. Class 2: IQR = 25. Which is most accurate?

A. Class 1 has more students

C. Class 1's middle 50% of scores are more tightly clustered

B. Class 2 has higher test scores

D. Class 1 did better overall



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

### Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.PAFR.1.1)** From week 1 to week 2, the total increases from 25 to 50 books, a change of 25. So 25 books are donated per week.
- 2) **Choice D is correct.** **(6.PAFR.1.1)** There are 15 data values: 65, 67, 69, 71, 72, 72, 74, 74, 78, 80, 83, 86, 89, 92, 95. With an odd count, the median is the middle value at position 8, which is 74.
- 3) **Choice D is correct.** **(6.PAFR.2.6)** A ratio is in simplest form when the two numbers have no common factor greater than 1. The numbers 5 and 7 share no common factor except 1, so  $5 : 7$  is already simplified.
- 4) **Choice C is correct.** **(6.PAFR.2.8)** Plan A:  $35 \div 500 = 0.07$  per min. Plan B:  $50 \div 800 = 0.0625$  per min. Plan C:  $60 \div 1000 = 0.06$  per min. Plan C is lowest.
- 5) **Choice C is correct.** **(6.NR.2.4)** Total fixed expenses:  $\$180 + \$60 + \$60 = \$300$ . Percentage of income:  $\frac{\$300}{\$600} = \frac{1}{2} = 50\%$ .
- 6) **Choice B is correct.** **(6.PAFR.3.5)** Three identical jumps of  $-1$  can be represented as  $3 \times (-1) = -3$ .
- 7) **Choice D is correct.** **(6.PAFR.2.6)** Yes. If apples to oranges is  $7 : 3$ , then reversing the order to oranges to apples also reverses the numbers, giving  $3 : 7$ .
- 8) **Choice D is correct.** **(6.PAFR.2.5)**  $12 \div \frac{5}{2} = 12 \times \frac{2}{5} = \frac{24}{5} = 4.8$  miles per hour.
- 9) **Choice C is correct.** **(6.PAFR.3.2)** The ratio is  $4 : 3$ . When orange is 12 (multiply by 3), pineapple is  $3 \times 3 = 9$  gal.
- 10) **The correct answer is 88.** **(6.DPSR.1.2)** With 10 scores, the median is the average of the 5th and 6th values:  $(88 + 88) \div 2 = 88$ .
- 11) **Choice A is correct.** **(6.MGSR.3.2)** Swapping the  $x$  and  $y$  coordinates of  $(8, 5)$  gives  $(5, 8)$ . This is a common error when plotting ratio pairs on a coordinate plane.
- 12) **Choice A is correct.** **(6.PAFR.2.7)** Shaded: 50 squares ( $5$  rows  $\times$   $10$  cols). Unshaded: 50 squares out of  $100 = \frac{50}{100} = \frac{1}{2}$  in simplest form.
- 13) **Choice C is correct.** **(6.PAFR.2.6)**  $45\%$  of  $120 = 0.45 \times 120 = 54 \text{ m}^2$ .
- 14) **Choice A is correct.** **(6.PAFR.2.9)** Divide:  $500 \div 1000 = 0.5 \text{ kg}$ .
- 15) **Choice C is correct.** **(6.PAFR.1.1)** The relationship is proportional because the ratio visits/days is constant:  $100/1 = 200/2 = 300/3 = 100$ . A constant increase alone is not enough to prove proportionality, but the constant ratio confirms it here.
- 16) **Choice A is correct.** **(6.PAFR.1.2)** Miscellaneous:  $100\% - 50\% - 30\% = 20\%$  of  $\$200 = 0.20 \times 200 = \$40$ .
- 17) **Choice D is correct.** **(6.PAFR.2.7)** Actual side:  $2 \times 10 = 20$  feet. Area:  $20 \times 20 = 400 \text{ sq ft}$ .
- 18) **Choice D is correct.** **(6.NR.2.3)**  $\frac{3}{4} \times \frac{8}{3} = \frac{24}{12} = 2$ .
- 19) **Choice A is correct.** **(6.PAFR.3.7)** Compare:  $0.83 = 0.830 > 0.800 > 0.380 > 0.308$ . Order from greatest to least:  $0.83, 0.8, 0.38, 0.308$ .
- 20) **The correct answer is A statistical question anticipates variability and is answered by collecting data..** **(6.MGSR.1.4)** Options B and C are correct: statistical questions expect varied answers and require data collection. Option A is wrong (statistical questions do NOT have single answers). Option D is irrelevant (statistical questions can be about unfamiliar topics). Option E partially overlaps with B and C but is less precise.
- 21) **Choice A is correct.** **(6.PAFR.2.6)**  $30 = 2 \times 15 = 2 \times 3 \times 5$ . The prime factors are 2, 3, 5. Option B uses 15, which is composite; C uses 10, which is composite; D gives prime factorization of 12.
- 22) **The correct answer is  $\frac{3}{10}$ .** **(6.DPSR.2.2)** Total marbles =  $7 + 3 = 10$ . Red marbles = 3. Probability =  $\frac{3}{10}$ . This fraction is already in lowest terms.



From Your Math Family

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Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 5 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

# PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



#### BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



#### IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



#### ACHIEVE SUCCESS

Consistent practice leads to greater results.

## WHAT'S INSIDE?



#### 5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



#### Realistic Questions

A variety of question types to strengthen problem-solving skills.



#### Answer Keys & Explanations

Detailed solutions to help students learn and improve.



#### Performance Tracking

Track progress and identify areas that need improvement.



#### Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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